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(54) Title: 5-AMINOINDENO(1,2-C)PYRAZOL-4-ONES AS ANTI-CANCER AND ANTI-PROLIFERATIVE AGENTS

(57) Abstract

The present invention relates to the synthesis of a new class of indeno [1,2-c]pyrazol-4-ones of formula (I), that are potent inhibitors of the class of enzymes known as cyclin dependent kinases, which relate to the catalytic subunits cdk1-7 and their regulatory subunits known as cyclines A-G. This invention also provides a novel method of treating cancer or other proliferative diseases by administering a therapeutically effective amount of one of these compounds or a pharmaceutically acceptable salt form thereof. Alternatively, one can treat cancer or other proliferative diseases by administering a therapeutically effective combination of one of the compounds of the present invention and one or more other known anti-cancer or anti-proliferative agents.

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5-AMINOINDENO(1,2-C)PYRAZOL-4-ONES AS ANTI-CANCER AND ANTI-PROLIFERATIVE AGENTS

#### FIELD OF THE INVENTION

This invention relates generally to novel 5-10 substituted-indeno[1,2-c]pyrazol-4-ones which are useful as cyclin dependent kinase (cdk) inhibitors, pharmaceutical compositions comprising the same, methods for using the same for treating proliferative diseases, and intermediates and processes for making the same. 15

#### BACKGROUND OF THE INVENTION

One of the most important and fundamental processes in biology is the division of cells mediated by the cell cycle. This process ensures the controlled production of subsequent generations of cells with defined biological function. It is a highly regulated phenomenon and responds to a diverse set of cellular signals both within the cell and from external sources. A complex network of tumor promoting and suppressing gene products are key components of this cellular signaling process. Over expression of the tumor promoting components or the subsequent loss of the tumor suppressing products will lead to unregulated cellular proliferation and the generation of tumors (Pardee, Science 246:603-608, 1989). 30

Cyclin dependent kinases (cdks) play a key role in regulating the cell cycle machinery. These complexes consist of two components: a catalytic subunit (the kinase) and a regulatory subunit (the cyclin). To date, six kinase subunits (cdk 1-7) have been identified along with several regulatory subunits (cyclins A-H). Each kinase associates with a specific regulatory partner and together make up the active catalytic moiety. Each transition of the cell cycle is regulated by a particular cdk complex: G1/S by cdk2/cyclin E, cdk4/cyclin D1 and cdk6/cyclinD2; S/G2 by cdk2/cyclin A and cdk1/cyclin A; G2/M by cdk1/B. The

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coordinated activity of these kinases guides the individual cells through the replication process and ensures the vitality of each subsequent generation (Sherr, Cell 73:1059-1065, 1993; Draetta, Trends Biochem. Sci. 15:378-382, 1990)

An increasing body of evidence has shown a link between 10 tumor development and cdk related malfunctions. Over expression of the cyclin regulatory proteins and subsequent kinase hyperactivity have been linked to several types of cancers (Jiang, Proc. Natl. Acad. Sci. USA 90:9026-9030, 1993; Wang, Nature 343:555-557, 1990). More recently, endogenous, highly specific protein inhibitors of cdks were 15 found to have a major affect on cellular proliferation (Kamb et al, Science 264:436-440, 1994; Beach, Nature 336:701-704, 1993). These inhibitors include  $p16^{INK4}$  (an inhibitor of cdk4/D1),  $p21^{\mbox{CIP1}}$  (a general cdk inhibitor), and  $p27^{\mbox{KIP1}}$  (a 20 specific cdk2/E inhibitor). A recent crystal structure of p27 bound to cdk2/A revealed how these proteins effectively inhibit the kinase activity through multiple interactions with the cdk complex (Pavletich, Nature 382:325-331, 1996). These proteins help to regulate the cell cycle through 25 specific interactions with their corresponding cdk complexes. Cells deficient in these inhibitors are prone to unregulated growth and tumor formation.

This body of evidence has led to an intense search for small molecule inhibitors of the cdk family as an approach to cancer chemotherapy. There are no known examples of molecules related to the current invention which describe 5-substituted-indeno[1,2-c]pyrazoles as cdk inhibitors. There is one case describing indeno[1,2-c]pyrazoles having anticancer activity. There are two other examples which describe indeno[1,2-c]pyrazoles having unrelated utilities and structures.

A series of indeno[1,2-c]pyrazoles having anticancer activity are described in JP 60130521 and JP 62099361 with the following generic structure:

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$$X$$
 $N$ 
 $R_1$ 

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No substitution is claimed on the indenophenyl portion of the molecule and the molecules are not indicated to be cdk inhibitors. In addition, we discovered that substitution at the 5-position was critical for cdk inhibitory activity.

A series of indeno[1,2-c]pyrazoles having herbicidal activity are described in GB 2223946 with the following generic structure:

$$X_n$$
 $R_2$ 
 $R_1$ 

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The above compounds differ from the presently claimed invention in  $X_{\rm n}$  is defined as halo, alkyl, haloalkyl, and haloalkoxy; n = 0-2. In addition,  $R_{\rm 1}$  is defined as acyl and  $R_{\rm 2}$  is defined as alkyl or cycloalkyl.

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A series of 1-(6'-substituted-4'-methylquinol-2'-yl)-3-methylindeno[1,2-c]pyrazoles having CNS activity are described by Quraishi, Farmaco 44:753-8, 1989 with the following generic structure:

MO 33/34306 4 . . . .

Compounds of this series are not considered to be part of the presently claimed invention.

#### SUMMARY OF THE INVENTION

The present invention describes a novel class of indeno[1,2-c]pyrazol-4-ones or pharmaceutically acceptable salt forms thereof that are potent inhibitors of the class of enzymes known as cyclin dependent kinases, which relate to the catalytic subunits cdk 1-7 and their regulatory subunits know as cyclins A-H.

It is another object of this invention to provide a novel method of treating cancer or other proliferative diseases by administering a therapeutically effective amount of one of these compounds or a pharmaceutically acceptable salt form thereof.

It is another object of this invention to provide a novel method of treating cancer or other proliferative diseases, which comprises administering a therapeutically effective combination of one of the compounds of the present invention and one or more other known anti-cancer or anti-proliferative agents.

These and other objectives have been achieved by the inventors' discovery that compounds of formula (I):

(I)

wherein  $R_1$ ,  $R_2$  and X are defined below or pharmaceutically acceptable salts thereof are cyclin dependent kinase inhibitors.

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#### DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

The invention pertains to novel cyclin dependent kinase inhibitors (cdks) and specifically, but not exclusively, as inhibitors of cdk/cyclin complexes. The inhibitors of this invention are indeno[1,2-c]pyrazol-4-one analogs. Certain analogs were selective for their activity against cdks and their cyclin bound complexes and were less active against other known serine/threonine kinases such as Protein Kinase A (PKA) and Protein Kinase C (PKC). In addition, these inhibitors were less active against tyrosine kinases such as c-Abl.

As described herein, the inhibitors of this invention are capable of inhibiting the cell-cycle machinery and consequently would be useful in modulating cell-cycle progression, which would ultimately control cell growth and differentiation. Such compounds would be useful for treating subjects having disorders associated with excessive cell proliferation, such as the treatment of cancer, psoriasis, immunological disorders involving unwanted leukocyte proliferation, in the treatment of restinosis and other smooth muscle cell disorders, and the like.

The present invention, in a first embodiment, describes a novel compound of formula (I):

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or a stereoisomer or pharmaceutically acceptable salt form thereof, wherein:

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X is selected from the group: O, S, and NR;

5 R is selected from the group: H,  $C_{1-4}$  alkyl, and  $NR^5R^5a$ ;

- $R^1$  is selected from the group: H,  $C_{1-10}$  alkyl substituted with 0-3  $R^C$ ,  $C_{2-10}$  alkenyl substituted with 0-3  $R^C$ ,  $C_{2-10}$  alkynyl substituted with 0-3  $R^C$ , -NHR<sup>4</sup>,  $C_{3-10}$
- carbocycle substituted with 0-5 R<sup>a</sup>, and 3-10 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S and substituted with 0-5 R<sup>b</sup>;
- 15 group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
  - alternatively, when two  $R^{a}$ 's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;
- 25  $R^b$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, and SO<sub>2</sub>R<sup>3</sup>b;

 $R^{C}$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, =O, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>,

- $SO_2NR^3R^3a$ ,  $SO_2R^3b$ ,  $C_{3-10}$  carbocycle substituted with 0-5  $R^a$ , and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3  $R^3$ ;
- 10 R<sup>2</sup> is selected from the group: H, C<sub>1-10</sub> alkyl substituted

  with 0-3 R<sup>C</sup>, C<sub>2-10</sub> alkenyl substituted with 0-3 R<sup>C</sup>,

  C<sub>2-10</sub> alkynyl substituted with 0-3 R<sup>C</sup>, -(CF<sub>2</sub>)mCF<sub>3</sub>,

  C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 3-10

  membered heterocycle containing from 1-4 heteroatoms

  selected from O, N, and S and substituted with 0-5 R<sup>b</sup>;
  - $R^3$  is selected from the group: H, halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> haloalkyl, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>C(0)OR<sup>5</sup>, NR<sup>5</sup>C(0)R<sup>5</sup>, =0, OR<sup>5</sup>, COR<sup>5</sup>, CO<sub>2</sub>R<sup>5</sup>, CONR<sup>5</sup>R<sup>5a</sup>, NHC(0)NR<sup>5</sup>R<sup>5a</sup>, NHC(S)NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>R<sup>5</sup>b, C<sub>1-4</sub> alkyl, phenyl, and benzyl;
  - ${\mbox{R}}^{3a}$  is selected from the group: H,  ${\mbox{C}}_{1-4}$  alkyl, phenyl, and benzyl;
  - alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom to which they are attached, form a heterocycle having 4-8 atoms in the ring containing an additional 0-1 N, S, or O atom and substituted with 0-3 R<sup>3C</sup>;
  - $R^{3b}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- $R^{3C}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub>

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haloalkyl,  $NR^3R^{3b}$ , =0,  $OR^3$ ,  $COR^3$ ,  $CO_2R^3$ ,  $CONR^3R^{3b}$ , ...  $NHC(O)NR^3R^{3b}$ ,  $NHC(S)NR^3R^{3b}$ ,  $NR^3C(O)OR^3$ ,  $NR^3C(O)R^3$ ,  $SO_2NR^3R^{3b}$ ,  $SO_2R^{3b}$ , and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O,  $\dot{N}$ , and S;

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- R<sup>4</sup> is independently at each occurrence selected from the group: H, -CN, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub>

  15 carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;
- $R^5$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;
  - $R^{5a}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;
- 25 R<sup>5b</sup> is independently selected from the group: H, C<sub>1-4</sub> alkyl, phenyl and benzyl; and

m is selected from 0, 1, 2, and 3.

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- In a preferred embodiment, the present invention provides a novel compound of formula (I), wherein:
  - X is selected from the group: O, S, and NR;

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R is selected from the group: H,  $C_{1-4}$  alkyl, and  $NR^5R^{5a}$ ;

5 R<sup>1</sup> is selected from the group: H, C<sub>1-5</sub> alkyl substituted
with 0-3 R<sup>C</sup>, C<sub>2-5</sub> alkenyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub>
alkynyl substituted with 0-3 R<sup>C</sup>, -NHR<sup>4</sup>, C<sub>3-6</sub> carbocycle
substituted with 0-5 R<sup>a</sup>, and 3-6 membered heterocycle
containing from 1-4 heteroatoms selected from O, N, and
S and substituted with 0-5 R<sup>b</sup>;

- $R^a$  is independently at each occurrence selected from the group: halo, -CN, N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- alternatively, when two Ra's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;
  - $R^b$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, and SO<sub>2</sub>R<sup>3b</sup>;
- $R^C$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, =O, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>B<sup>3</sup>, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from

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 $^{5}$  l-4 heteroatoms selected from O, N, and S, substituted with 0-3  $R^{3}$ ;

- R<sup>2</sup> is selected from the group: H, C<sub>1-5</sub> alkyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub> alkenyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub>

  alkynyl substituted with 0-3 R<sup>C</sup>, -(CF<sub>2</sub>)mCF<sub>3</sub>, C<sub>3-6</sub>

  carbocycle substituted with 0-5 R<sup>a</sup>, and 3-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S and substituted with 0-5 R<sup>b</sup>;
- 15  $R^3$  is selected from the group: H, halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> haloalkyl, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>C(O)OR<sup>5</sup>, NR<sup>5</sup>C(O)R<sup>5</sup>, =O, OR<sup>5</sup>, COR<sup>5</sup>, CO<sub>2</sub>R<sup>5</sup>, CONR<sup>5</sup>R<sup>5a</sup>, NHC(O)NR<sup>5</sup>R<sup>5a</sup>, NHC(S)NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>R<sup>5</sup>b, C<sub>1-4</sub> alkyl, phenyl, and benzyl;
- $\mathbb{R}^{3a}$  is selected from the group: H,  $\mathbb{C}_{1-4}$  alkyl, phenyl, and benzyl;
- alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom
  to which they are attached, form a heterocycle having
  4-8 atoms in the ring containing an additional 0-1 N,
  S, or O atom and substituted with 0-3 R<sup>3C</sup>;
- $\mathbb{R}^{3b}$  is selected from the group: H,  $\mathbb{C}_{1-4}$  alkyl, phenyl, and benzyl;
  - is independently at each occurrence selected from the group: halo, -CN ,  $N_3$ ,  $NO_2$ ,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3b}$ , =0,  $OR^3$ ,  $COR^3$ ,  $CO_2R^3$ ,  $CONR^3R^{3b}$ ,

5 NHC(0)NR $^3$ R $^3$ b, NHC(S)NR $^3$ R $^3$ b, NR $^3$ C(0)OR $^3$ , NR $^3$ C(O)R $^3$ , SO $_2$ NR $^3$ R $^3$ b, SO $_2$ R $^3$ b, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;

- 10  $R^4$  is independently at each occurrence selected from the group: H, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,  $COR^3$ ,  $CO_2R^3$ ,  $CONR^3R^{3a}$ ,  $NHC(0)NR^3R^{3a}$ ,  $NHC(S)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ ,  $SO_2R^{3b}$ ,  $C_{3-10}$  carbocycle substituted with 0-5  $R^a$ , and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3  $R^3$ ;
  - $R^5$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
  - $R^{5a}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;
- $R^{5b}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl; and
  - m is selected from 0, 1, 2, and 3.
- In a more preferred embodiment, the present invention provides a novel compound of formula (I), wherein:
  - X is selected from the group: O and S;
- $R^1$  is selected from the group: H,  $C_{1-5}$  alkyl substituted with 0-3  $R^C$ ,  $C_{2-5}$  alkenyl substituted with 0-3  $R^C$ , -NHR<sup>4</sup>,  $C_{3-6}$  carbocycle substituted with 0-5  $R^a$ , and 3-6

membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S and substituted with 0-5  $R^b$ ;

- $R^a$  is independently at each occurrence selected from the group: halo, -CN, N<sub>3</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl,
- NR $^3$ R $^3$ a, NR $^3$ C(O)OR $^3$ , NR $^3$ C(O)R $^3$ , OR $^3$ , COR $^3$ , COR $^3$ , COR $^3$ R $^3$ a, NHC(O)NR $^3$ R $^3$ a, SO $_2$ NR $^3$ R $^3$ a, SO $_2$ R $^3$ b, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- alternatively, when two Ra's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;
- $R^b$  is independently at each occurrence selected from the group: halo, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,  $OR^$
- $R^{C}$  is independently at each occurrence selected from the group: halo, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^{3}R^{3a}$ ,  $NR^{5}NR^{5}R^{5a}$ ,  $NR^{3}C(0)OR^{3}$ ,  $NR^{3}C(0)R^{3}$ , =0,  $OR^{3}$ ,  $COR^{3}$ ,  $CO_{2}R^{3}$ ,  $CONR^{3}R^{3a}$ ,  $NHC(0)NR^{3}R^{3a}$ ,  $SO_{2}NR^{3}R^{3a}$ ,  $SO_{2}R^{3b}$ ,  $C_{3-10}$  carbocycle substituted with 0-5  $R^{a}$ , and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3  $R^{3}$ ;

30

 $R^2$  is selected from the group: H,  $C_{1-5}$  alkyl substituted with 0-3  $R^C$ ,  $C_{2-5}$  alkenyl substituted with 0-3  $R^C$ ,  $-(CF_2)_mCF_3$ ,  $C_{3-6}$  carbocycle substituted with 0-5  $R^a$ , and 3-6 membered heterocycle containing from 1-4

heteroatoms selected from O, N, and S and substituted with 0-5  $R^{b}$ ;

- $R^{3a}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom to which they are attached, form a heterocycle having 5-6 atoms in the ring containing an additional 0-1 N, S, or O atom and substituted with 0-3 R<sup>3C</sup>;
  - $R^{3b}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- 25  $R^{3C}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3b</sup>, =O, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3b</sup>, NHC(O)NR<sup>3</sup>R<sup>3b</sup>, NHC(S)NR<sup>3</sup>R<sup>3b</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3b</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- $R^4$  is independently at each occurrence selected from the group: H, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,

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NHC(0)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S, substituted with 0-3 R<sup>3</sup>;

- 10  $R^5$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
  - $R^{5a}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;

 $R^{5b}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl; and

m is selected from 0, 1, 2, and 3.

20

15

In a even more preferred embodiment, the present invention provides a novel compound of formula (I), wherein:

- 25 X is selected from the group: O and S;
- $R^1$  is selected from the group: H,  $C_{1-5}$  alkyl substituted with 0-2  $R^C$ , -NHR<sup>4</sup>,  $C_{3-6}$  carbocycle substituted with 0-5  $R^a$ , and 5-6 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S and substituted with 0-5  $R^b$ ;
  - ${\tt R}^{\tt a}$  is independently at each occurrence selected from the group: halo, -CN, N3, C1-4 alkyl, C1-4 haloalkyl,
- NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, and 5-6

5 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;

alternatively, when two Ra's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;

10

 $R^b$  is independently at each occurrence selected from the group: halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,  $COR^3$ ,  $COR^3$ ,  $COR^3$ ,  $COR^3R^3a$ ,  $NHC(0)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ , and  $SO_2R^{3b}$ ;

15

- R<sup>C</sup> is independently at each occurrence selected from the group: halo, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub>

  carbocycle substituted with 0-5 R<sup>a</sup>, and 5-6 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;
- R<sup>2</sup> is selected from the group: C<sub>1-5</sub> alkyl substituted with

  0-3 R<sup>C</sup>, -(CF<sub>2</sub>)<sub>m</sub>CF<sub>3</sub>, C<sub>3-6</sub> carbocycle substituted with

  0-5 R<sup>a</sup>, and 5-6 membered heterocycle containing from

  1-4 heteroatoms selected from O, N, and S and

  substituted with 0-3 R<sup>b</sup>;
- 30  $R^3$  is selected from the group: H, halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> haloalkyl, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>C(O)OR<sup>5</sup>, NR<sup>5</sup>C(O)R<sup>5</sup>, =0, OR<sup>5</sup>, COR<sup>5</sup>, CO<sub>2</sub>R<sup>5</sup>, CONR<sup>5</sup>R<sup>5a</sup>, NHC(O)NR<sup>5</sup>R<sup>5a</sup>, NHC(S)NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>R<sup>5</sup>b, C<sub>1-4</sub> alkyl, phenyl, and benzyl;

5 R<sup>3a</sup> is selected from the group: H, C<sub>1-4</sub> alkyl, phenyl, and benzyl;

- alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom to which they are attached, form a heterocycle having 5-6 atoms in the ring containing an additional 0-1 N, S, or O atom and substituted with 0-3 R<sup>3C</sup>;
  - $R^{3b}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- $R^{3c}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3b</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3b</sup>, NHC(O)NR<sup>3</sup>R<sup>3b</sup>, NHC(S)NR<sup>3</sup>R<sup>3b</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3b</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- group: H, -CN, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, COR<sup>3</sup>, COR<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;
  - $\mbox{R}^{5}$  is independently selected from the group: H and  $\mbox{C}_{1\text{--}4}$  alkyl;
- 35  $R^{5a}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;

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5
    R<sup>5b</sup> is independently selected from the group: H and C<sub>1-4</sub>
         alkyl; and
    m is selected from 0, 1, 2, and 3.
10
    In a most preferred embodiment, the compounds of formula (I)
         are selected from:
    3-(4-methoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    3-(phenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    3-(4-methylthiophenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-
20
         one;
    3-(4-methylsulfonylphenyl)-5-(acetamido)indeno[1,2-
          c]pyrazol-4-one;
    3-(4-N, N-dimethylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-
25
          4-one;
     3-(3-pyridyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
     3-(4-methoxyphenyl)-5-(formamido)indeno[1,2-c]pyrazol-4-one;
30
     3-(4-hydroxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
     3-(4-(1-piperidinyl)phenyl)-5-(acetamido)indeno[1,2-
          c]pyrazol-4-one;
35
     3-(4-morpholinyl)phenyl)-5-(acetamido)indeno[1,2-c]pyrazol-
          4-one;
     3-(4-ethoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
40
     3-(4-butylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
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5
    3-(4-ethylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    3-(4-n-propylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-
         one;
10
    3-(4-methoxyphenyl)-5-((4-aminophenyl)acetamido)indeno[1,2-
         c]pyrazol-4-one;
    3-(4-pyridyl)-5-(formamido)indeno[1,2-c]pyrazol-4-one;
15
    3-(4-pyridyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-aminophenyl)acetamido)indeno[1,2-
         c]pyrazol-4-one;
20
    3-(4-methoxyphenyl)-5-((4-azidophenyl)acetamido)indeno[1,2-
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-methoxycarbonylaminophenyl)
25
         acetamido) indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-aminomethylcarbonylaminophenyl)
         acetamido) indeno [1, 2-c] pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-dimethylaminomethylcarbonyl
30
         aminophenyl) acetamido) indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-acetamidophenyl)acetamido)
         indeno[1,2-c]pyrazol-4-one;
35
    3-(4-methoxyphenyl)-5-(pyrrolidinylacetamido)indeno[1,2-
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(morpholinylacetamido)indeno[1,2-
40
         c]pyrazol-4-one;
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3-(4-methoxyphenyl)-5-(thiomorpholinylacetamido)indeno[1,2-
5
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(ethylaminoacetamido)indeno[1,2-
         c]pyrazol-4-one;
10
    3-(4-methoxyphenyl)-5-(piperidinylacetamido)indeno[1,2-
      c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(4-aminomethylpiperidinylacetamido)
         indeno[1,2-c]pyrazol-4-one;
15
    3-(4-methoxyphenyl)-5-(piperazinylacetamido)indeno[1,2-
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(4-methylpiperazinylacetamido)
20
          indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(4-(2-
         hydroxyethyl)piperazinylacetamido)indeno[1,2-c]pyrazol-
25
          4-one;
     3-(4-methoxyphenyl)-5-(N,N-dimethylaminoacetamido)
          indeno[1,2-c]pyrazol-4-one;
     3-(4-methoxyphenyl)-5-((2-hydroxyethyl)aminoacetamido)
30
          indeno[1,2-c]pyrazol-4-one;
     3-(4-methoxyphenyl)-5-(aminoacetamido)indeno[1,2-c]pyrazol-
          4-one;
35
     3-(4-methoxyphenyl)-5-((2-chlorophenyl)acetamido)indeno[1,2-
          c]pyrazol-4-one;
     3-(4-methoxyphenyl)-5-((2,4-
          dichlorophenyl) acetamido) indeno [1,2-c] pyrazol-4-one;
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5
    3-(4-methoxyphenyl)-5-((3,4-dichlorophenyl)acetamido)
         indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((2-methoxyphenyl)acetamido)
         indeno[1,2-c]pyrazol-4-one;
10
    3-(4-dimethoxyphenyl)-5-((3-thiophene)acetamido)indeno[1,2-
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((3,4-ethylenedioxyphenyl)acetamido)
15
         indeno[1,2-c]pyrazol-4-one;
    3-(3,4-dimethoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-
         one;
20
    3-(2-methoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((2,5-dimethoxyphenyl)acetamido)
         indeno[1,2-c]pyrazol-4-one;
25
    3-(4-methoxyphenyl)-5-((3,4-dimethoxyphenyl)acetamido)
         indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-methoxyphenyl)acetamido)
         indeno[1,2-c]pyrazol-4-one;
30
    3-(4-methoxyphenyl)-5-((3-
          methoxyphenyl) acetamido) indeno[1,2-c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-((4-chlorophenyl)acetamido)indeno[1,2-
35
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(butylcarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(4-aminobenzylcarbamoyl)aminoindeno
40
         [1,2-c]pyrazol-4-one;
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3-(4-methoxyphenyl)-5-(4-pyridylcarbamoyl)aminoindeno[1,2-
5
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(phenylcarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
10
    3-(4-methoxyphenyl)-5-(cyclobutylamido)indeno[1,2-c]pyrazol-
         4-one;
    3-(4-methoxyphenyl)-5-(cyclopentylamido)indeno[1,2-
15
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(propylamido)indeno[1,2-c]pyrazol-4-
         one;
    3-(4-methoxyphenyl)-5-(ethylamido)indeno[1,2-c]pyrazol-4-
20
         one;
    3-(4-methoxyphenyl)-5-(benzylamido)indeno[1,2-c]pyrazol-4-
         one;
25
    3-(4-methoxyphenyl)-5-(isopropylamido)indeno[1,2-c]pyrazol-
         4-one;
    3-(4-methoxyphenyl)-5-(cyclopropylamido)indeno[1,2-
30
         c]pyrazol-4-one;
    3-(4-methoxyphenyl)-5-(chloroacetamido)indeno[1,2-c]pyrazol-
          4-one;
    3-(4-methoxyphenyl)-5-(4-pyridinylaminomethylacetamido)
35
          indeno[1,2-c]pyrazol-4-one;
     3-(4-N, N-dimethylaminophenyl)-5-
          (morpholinylacetamido) indeno[1,2-c]pyrazol-4-one;
40
     3-(4-N, N-dimethylaminophenyl)-5-
          (dimethylaminoacetamido) indeno[1,2-c]pyrazol-4-one;
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5
    3-(4-(trifluoromethyl)phenyl)-5-(acetamido)indeno[1,2-
         c]pyrazol-4-one;
    3-(4-(dimethylamino)phenyl)-5-((4-methyl-1-
10
         piperazinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
    3-(4-(dimethylamino)phenyl)-5-((4-aminomethyl-1-
         piperidinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
    3-(4-(dimethylamino)phenyl)-5-((4-hydroxy-1-
15
         piperidinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
    3-(4-(4-morpholinyl)phenyl)-5-((4-
          morpholinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
20
    3-(4-(4-morpholinyl)phenyl)-5-((4-methyl-1-
         piperazinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
    3-(4-(4-morpholinyl)phenyl)-5-((4-hydroxy-1-
         piperidinyl) acetamido) indeno[1,2-c] pyrazol-4-one;
25
    3-(4-(4-morpholinyl)phenyl)-5-((4-aminomethyl-1-
          piperidinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
30
    3-(4-(1-piperazinyl)phenyl)-5-((4-
          morpholinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
    3-(4-(1-piperazinyl)phenyl)-5-
          ((dimethylamino)acetamido)indeno[1,2-c]pyrazol-4-one;
35
    3-(4-(1-piperazinyl)phenyl)-5-((4-methyl-1-
          piperazinyl) acetamido) indeno[1,2-c] pyrazol-4-one;
    3-(4-(1-piperazinyl)phenyl)-5-((4-aminomethyl-1-
40
          piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
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5
            3-(4-(1-piperazinyl)phenyl)-5-
                            ((aminocarbonyl)amino)indeno[1,2-c]pyrazol-4-one;
             3-(4-(1-piperazinyl)phenyl)-5-
                            ((hydrazinocarbonyl)amino)indeno[1,2-c]pyrazol-4-one;
10
             3-(4-(1-piperazinyl)phenyl)-5-(((4-
                           morpholinylamino) carbonyl) amino) indeno[1,2-c] pyrazol-4-
                        one;
             3-(4-(4-methyl-1-piperazinyl)phenyl)-5-(((4-
15
                            morpholinylamino) carbonyl) amino) indeno[1,2-c] pyrazol-4-
                            one;
             3-(4-(4-ethyl-1-piperazinyl)phenyl)-5-(((4-
20
                            morpholinylamino) carbonyl) amino) indeno[1,2-c] pyrazol-4-
                            one:
              3-(4-(4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-(((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isopropyl-1-piperazinyl)phenyl)-5-((4-isop
                            morpholinylamino) carbonyl) amino) indeno[1,2-c] pyrazol-4-
25
                            one:
              3-(4-(4-t-butoxycarbonyl-1-piperazinyl)phenyl)-5-(((4-
                             morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-
                            one;
 30
              3-(4-(dimethylamino)phenyl)-5-((((4-methyl-1-
                             piperazinyl)amino)carbonyl)amino)indeno[1,2-c]pyrazol-
                             4-one;
              3-(i-propyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
 35
              3-(c-propyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
              3-(t-butyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
 40
              3-(2-thienyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
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3-(3-methyl-2-thienyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-
5
         one;
    3-(ethyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
    3-(n-propyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
10
    3-(i-propyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
    3-(c-propyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
15
    3-(c-hexyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
    3-(2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
    3-(3-methyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-
20
         c]pyrazol-4-one;
     3-(5-methyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
25
     3-(5-ethylcarboxyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-
          c]pyrazol-4-one;
     3-(3-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
30
     3-(1-methyl-3-pyrrolyl)-5-(carbamoyl)aminoindeno[1,2-
     c]pyrazol-4-one;
     3-(2,5-dimethyl-3-thienyl)-5-(carbamoyl)aminoindeno[1,2-
35
          c]pyrazol-4-one;
     3-(2-furanyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
     3-(i-propyl)-5-(N,N-dimethylaminocarbamoyl)aminoindeno[1,2-
          c]pyrazol-4-one;
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5
    3-(c-propyl)-5-(N, N-dimethylaminocarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
    3-(c-hexyl)-5-(N,N-dimethylaminocarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
10
    3-(2-thienyl)-5-(N,N-dimethylaminocarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
    3-(5-methoxy-2-thienyl)-5-(N,N-
15
         dimethylaminocarbamoyl) aminoindeno[1,2-c] pyrazol-4-one;
    3-(5-methyl-2-thienyl)-5-(N,N-
         dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
20
    3-(5-ethylcarboxyl-2-thienyl)-5-(N,N-
         dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
    3-(3-thienyl)-5-(N,N-dimethylaminocarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
25
    3-(5-chloro-3-thienyl)-5-(N,N-
         dimethylaminocarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
    3-(2,5-dimethyl-3-thienyl)-5-(N,N-
         dimethylaminocarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
30
    3-(2-furanyl)-5-(N,N-dimethylaminocarbamoyl)aminoindeno[1,2-
         c]pyrazol-4-one;
    3-(i-propyl)-5-(4-carbamoylpiperidinylacetamido)indeno[1,2-
35
         c]pyrazol-4-one;
    3-(c-hexyl)-5-(4-carbamoylpiperidinylacetamido)indeno[1,2-
          c]pyrazol-4-one;
40
    3-(ethyl)-5-(4-aminomethylpiperidinylacetamido)indeno[1,2-
          c]pyrazol-4-one;
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5
    3-(i-propyl)-5-(4-aminomethylpiperidinylacetamido)
         indeno[1,2-c]pyrazol-4-one;
    3-(c-propyl)-5-(4-aminomethylpiperidinylacetamido)
10
         indeno[1,2-c]pyrazol-4-one;
    3-(c-hexyl)-5-(4-aminomethylpiperidinylacetamido)indeno[1,2-
        clpyrazol-4-one;
    3-(i-propyl)-5-(4-methylpiperazinylcarbamoyl)aminoindeno
15
          [1,2-c]pyrazol-4-one;
    3-(5-ethylcarboxyl-2-thienyl)-5-(4-
         methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-
20
         one:
    3-(5-carboxyl-2-thienyl)-5-(4-
         methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-
         one;
25
     3-(2,5-dimethyl-3-thienyl)-5-(4-
          methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-
          one;
     3-(i-propyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-
30
          c]pyrazol-4-one;
     3-(N-methylcarbamoyl-4-piperidinyl)-5-
          (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
35
     3-(5-methyl-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno [1, 2-c] pyrazol-4-one;
     3-(5-chloro-3-thienyl)-5-
          (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
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```
3-(2,5-dimethyl-3-thienyl)-5-
5
         (morpholinylcarbamoyl) aminoindeno [1,2-c] pyrazol-4-one;
    3-(5-ethylcarboxyl-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
10
    3-(5-carboxyl-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
    3-(5-benzylcarboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
15
    3-(5-(4-methylpiperazinyl)carboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
    3-(5-(2-(1-methylpyrrolidinyl)ethyl)carboxamido-2-thienyl)-
20
          5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-
          one;
    3-(5-(N, N-dimethylamino) carboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
25
    3-(5-(2-(N, N-dimethylamino)ethyl)carboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
     3-(5-(2-(pyrrolidinyl)ethyl)carboxamido-2-thienyl)-5-
30
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
     3-(5-(2-(morpholinyl)ethyl)carboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
35
     3-(5-morpholinylcarboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
     3-(5-(3-(pyrrolidonyl)propyl)carboxamido-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno [1,2-c] pyrazol-4-one;
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```

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3-(5-(3-(imidazolyl)propyl)carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

- 3-(5-(2-(2-pyridyl)ethyl)carboxamido-2-thienyl)-5
  (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

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- 3-(5-(2-(piperidinyl)ethyl)carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
- or pharmaceutically acceptable salt form thereof.

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Another embodiment of the present invention is a pharmaceutical composition comprising: a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of formula (I).

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Another embodiment of the present invention is a method of treating cancer and proliferative diseases comprising: administering to a host in need of such treatment a therapeutically effective amount of a compound of formula (I), or a pharmaceutically effective salt form thereof.

#### DEFINITIONS

As used herein, the following terms and expressions have the indicated meanings. The compounds of the present invention may contain an asymmetrically substituted carbon atom, and may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as by resolution of racemic forms or by synthesis from optically active starting materials. All chiral, diastereomeric, racemic forms and all geometric isomeric forms of a structure are intended, unless the

5 specific stereochemistry or isomer form is specifically indicated.

The term "alkyl" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms. Examples of alkyl include, but are not limited to, methyl, ethyl, n-propyl, i-propyl, n-butyl, s-butyl, t-butyl, n-pentyl, and s-pentyl. In addition, the term is intended to include both unsubstituted and substituted alkyl groups, the latter referring to alkyl moieties having one or more hydrogen substituents replaced by, but not limited to halogen, hydroxyl, carbonyl, alkoxy, ester, ether, cyano, phosphoryl, amino, imino, amido, sulfhydryl, alkythio, thioester, sulfonyl, nitro, heterocyclo, aryl or heteroaryl. It will also be understood by those skilled in the art that the substituted moieties themselves can be substituted as well when appropriate.

The terms "halo" or "halogen" as used herein refer to fluoro, chloro, bromo and iodo. The term "aryl" is intended to mean an aromatic moiety containing the specified number of carbon atoms, such as, but not limited to phenyl, indanyl or naphthyl. The terms "cycloalkyl" and "bicycloalkyl" are intended to mean any stable ring system, which may be saturated or partially unsaturated. Examples of such include, but are not limited to, cyclopropyl, cyclopentyl, cyclohexyl, norbornyl, bicyclo[2.2.2]nonane, adamantly, or tetrahydronaphthyl (tetralin).

As used herein, "carbocycle" or "carbocyclic residue" is intended to mean any stable 3- to 7-membered monocyclic or bicyclic or 7- to 13-membered bicyclic or tricyclic, any of which may be saturated, partially unsaturated, or aromatic. Examples of such carbocycles include, but are not limited to, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, adamantyl, cyclooctyl,; [3.3.0]bicyclooctane, [4.3.0]bicyclononane, [4.4.0]bicyclodecane (decalin), [2.2.2]bicyclooctane, fluorenyl, phenyl, naphthyl, indanyl, adamantyl, or

tetrahydronaphthyl (tetralin).

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As used herein, the term "heterocycle" or "heterocyclic 5 system" is intended to mean a stable 5- to 7- membered monocyclic or bicyclic or 7- to 10-membered bicyclic heterocyclic ring which is saturated partially unsaturated or unsaturated (aromatic), and which consists of carbon atoms and from 1 to 4 heteroatoms independently selected 10 from the group consisting of N, O and S and including any bicyclic group in which any of the above-defined heterocyclic rings is fused to a benzene ring. The nitrogen and sulfur heteroatoms may optionally be oxidized. 15 heterocyclic ring may be attached to its pendant group at any heteroatom or carbon atom which results in a stable structure. The heterocyclic rings described herein may be substituted on carbon or on a nitrogen atom if the resulting compound is stable. If specifically noted, a nitrogen in 20 the heterocycle may optionally be quaternized. preferred that when the total number of S and O atoms in the heterocycle exceeds 1, then these heteroatoms are not adjacent to one another. It is preferred that the total number of S and O atoms in the heterocycle is not more than 1. As used herein, the term "aromatic heterocyclic system" 25 is intended to mean a stable 5- to 7- membered monocyclic or bicyclic or 7- to 10-membered bicyclic heterocyclic aromatic ring which consists of carbon atoms and from 1 to 4 heterotams independently selected from the group consisting 30 of N, O and S. It is preferred that the total number of S and O atoms in the aromatic heterocycle is not more than 1. Examples of heterocycles include, but are not limited to, 1H-indazole, 2-pyrrolidonyl, 2H,6H-1,5,2-dithiazinyl, 2H-pyrrolyl, 3H-indolyl, 4-piperidonyl, 4aH-carbazole, 4H-35 quinolizinyl, 6H-1,2,5-thiadiazinyl, acridinyl, azocinyl, benzimidazolyl, benzofuranyl, benzothiofuranyl, benzothiophenyl, benzoxazolyl, benzthiazolyl, benztriazolyl, benztetrazolyl, benzisoxazolyl, benzisothiazolyl, benzimidazalonyl, carbazolyl, 4aH-carbazolyl, b-carbolinyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, 40 2H,6H-1,5,2-dithiazinyl, dihydrofuro[2,3-b]tetrahydrofuran,

furanyl, furazanyl, imidazolidinyl, imidazolinyl, imidazolyl, 1H-indazolyl, indolenyl, indolinyl, indolizinyl, indolyl, isobenzofuranyl, isochromanyl, isoindazolyl, isoindolinyl, isoindolyl, isoquinolinyl, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxadiazolyl, 1,2,3-oxadiazolyl, 10 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, oxazolidinyl., oxazolyl, oxazolidinylperimidinyl, phenanthridinyl, phenanthrolinyl, phenarsazinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, pteridinyl, piperidonyl, 15 4-piperidonyl, pteridinyl, purinyl, pyranyl, pyrazinyl, pyrazolidinyl, pyrazolinyl, pyrazolyl, pyridazinyl, pyridooxazole, pyridoimidazole, pyridothiazole, pyridinyl, pyridyl, pyrimidinyl, pyrrolidinyl, pyrrolinyl, pyrrolyl, quinazolinyl, quinolinyl, 4H-quinolizinyl, quinoxalinyl, 20 quinuclidinyl, carbolinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, 6H-1,2,5thiadiazinyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5thiadiazolyl, 1,3,4-thiadiazolyl, thianthrenyl, thiazolyl, thienyl, thienothiazolyl, thienooxazolyl, thienoimidazolyl, 25 thiophenyl, triazinyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, xanthenyl. Preferred heterocycles include, but are not limited to, pyridinyl, furanyl, thienyl, pyrrolyl, pyrazolyl, imidazolyl, indolyl, benzimidazolyl, 1H-indazolyl, oxazolidinyl, benzotriazolyl, 30

As used herein, "pharmaceutically acceptable salts"

refer to derivatives of the disclosed compounds wherein the parent compound is modified by making acid or base salts thereof. Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines; alkali or organic

salts of acidic residues such as carboxylic acids; and the like. The pharmaceutically acceptable salts include the

benzisoxazolyl, oxindolyl, benzoxazolinyl, or isatinoyl.

for example, the above heterocycles.

Also included are fused ring and spiro compounds containing,

5 conventional non-toxic salts or the quaternary ammonium salts of the parent compound formed, for example, from non-toxic inorganic or organic acids. For example, such conventional non-toxic salts include those derived from inorganic acids such as hydrochloric, hydrobromic, sulfuric, sulfamic, phosphoric, nitric and the like; and the salts prepared from organic acids such as acetic, propionic, succinic, glycolic, stearic, lactic, malic, tartaric, citric, ascorbic, pamoic, maleic, hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic, sulfamilic, 2-acetoxybenzoic, fumaric, toluenesulfonic, methanesulfonic, ethane disulfonic, oxalic, isethionic, and the like.

The pharmaceutically acceptable salts of the present invention can be synthesized from the parent compound which contains a basic or acidic moiety by conventional chemical methods. Generally, such salts can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the appropriate base or acid in water or in an organic solvent, or in a mixture of the two; generally, nonaqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in Remington's Pharmaceutical Sciences, 18th ed., Mack Publishing Company, Easton, PA, 1990, p. 1445, the disclosure of which is hereby incorporated by reference.

The phrase "pharmaceutically acceptable" is employed herein to refer to those compounds, materials, compositions, and/or dosage forms which are, within the scope of sound medical judgment, suitable for use in contact with the tissues of human beings and animals without excessive toxicity, irritation, allergic response, or other problem or complication commensurate with a reasonable benefit/risk ratio.

"Prodrugs", as the term is used herein, are intended to include any covalently bonded carriers which release an active parent drug of the present invention in vivo when such prodrug is administered to a mammalian

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vivo when such prodrug is administered to a mammalian subject. Since prodrugs are known to enhance numerous desirable qualities of pharmaceuticals (i.e., solubility, bioavailability, manufacturing, etc.) the compounds of the present invention may be delivered in prodrug form. the present invention is intended to cover prodrugs of the 10 presently claimed compounds, methods of delivering the same, and compositions containing the same. Prodrugs of the present invention are prepared by modifying functional groups present in the compound in such a way that the modifications are cleaved, either in routine manipulation or 15 in vivo, to the parent compound. Prodrugs include compounds of the present invention wherein a hydroxy, amino, or sulfhydryl group is bonded to any group that, when the prodrug of the present invention is administered to a mammalian subject, it cleaves to form a free hydroxyl, free 20 amino, or free sulfydryl group, respectively. Examples of prodrugs include, but are not limited to, acetate, formate, and benzoate derivatives of alcohol and amine functional groups in the compounds of the present invention.

"Substituted" is intended to indicate that one or more hydrogens on the atom indicated in the expression using "substituted" is replaced with a selection from the indicated group(s), provided that the indicated atom's normal valency is not exceeded, and that the substitution results in a stable compound. When a substituent is keto (i.e., =0) group, then 2 hydrogens on the atom are replaced.

As used herein, the term "anti cancer" or "antiproliferative" agent includes, but is not limited to,
altretamine, busulfan, chlorambucil, cyclophosphamide,
ifosfamide, mechlorethamine, melphalan, thiotepa,
cladribine, fluorouracil, floxuridine, gemcitabine,
thioguanine, pentostatin, methotrexate, 6-mercaptopurine,
cytarabine, carmustine, lomustine, streptozotocin,
carboplatin, cisplatin, oxaliplatin, iproplatin,
tetraplatin, lobaplatin, JM216, JM335, fludarabine,
aminoglutethimide, flutamide, goserelin, leuprolide,

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diethylstilbestrol, prednisone, bleomycin, dactinomycin, daunorubicin, doxirubicin, idarubicin, mitoxantrone, losoxantrone, mitomycin-c, plicamycin, paclitaxel, docetaxel, topotecan, irinotecan, 9-amino camptothecan, 9-nitro camptothecan, GS-211, etoposide, teniposide, vinblastine, vincristine, vinorelbine, procarbazine, asparaginase, pegaspargase, octreotide, estramustine, hydroxyurea.

### SYNTHESIS

The compounds of the present invention can be synthesized using the methods described below, together with synthetic methods known in the art of synthetic organic chemistry, or variations thereon as appreciated by those skilled in the art. Preferred methods include, but are not limited to, those methods described below. Each of the references cited below are hereby incorporated herein by reference.

SCHEME 1

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An approach to preparing indeno[1,2-c]pyrazol-4-ones is presented in Scheme 1 and can be used to prepare compounds of the present invention. The nitro group of dimethyl 3-nitrophthalate was reduced to the amine using catalytic hydrogenation. The aniline was acylated using acetic anhydride and pyridine as a base. A mixture of the resulting acetamide 2 and an acetophenone were treated with a strong

base in an appropriate solvent at elevated temperature to give the desired triketone 3. Additional means of preparing triketones are known to one skilled in the art as described in Kilgore et al, Industrial and Engineering Chemistry 34:494-497, 1946, the contents of which are hereby incorporated herein by reference. The triketone was treated 10 with hydrazine at elevated temperature in an appropriate solvent to give the indeno[1,2-c]pyrazol-4-one ring system. Additional means of preparing indeno[1,2-c]pyrazol-4-ones are known to one skilled in the art as described in Lemke et al., J. Heterocyclic Chem. 19:1335-1340, 1982; Mosher and 15 Soeder, J. Heterocyclic Chem. 8:855-59, 1971; Hrnciar and Svanygova Collect. Czech. Chem. Commun. 59:2734-40, 1994 the contents of which are hereby incorporated herein by reference. The amide was deacylated by heating with a strong acid in an appropriate solvent to give aniline 4. This 20 aniline was acylated under standard conditions using an acid chloride in an appropriate solvent to give the desired product 5.

### SCHEME 2

$$\begin{array}{c|c}
 & 1. \ \text{acid} \\
\hline
 & 2. \ & R_1 \\
\hline
 & GI
\end{array}$$

$$\begin{array}{c|c}
 & R_2 \\
\hline
 & R_1 \\
\hline
 & R_2 \\
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 & R_2 \\
\hline
 & R_1 \\
\hline
 & R_1 \\
\hline
 & R_2 \\
\hline
 & R_1 \\
\hline$$

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An alternative method for making compounds of the present invention is shown in Scheme 2. The intermediate triketone 3 can be deacylated with strong acid and reacylated with an appropriate acid chloride using methods

known to those skilled in the art. Subsequently, triketone 6 can the be converted to the indeno[1,2-c]pyrazol-4-one ring system using the same conditions described previously in Scheme 1.

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#### SCHEME 3

RCO<sub>2</sub>Et, NaOEt, EtOH
$$R^{1} = \text{clh}_{3} \text{ or } \text{CF}_{3}$$

$$(R^{1} = \text{alkyl. aryl.} \text{ or heteroaryl})$$

$$AcOH. Et_{3}N$$

$$R^{2}$$

$$R^{2}$$

$$R^{3}$$

$$R^{2}$$

$$R^{4}$$

$$R^{1}$$

$$R^{2}$$

$$R^{2}$$

$$R^{2}$$

$$R^{2}$$

$$R^{3}$$

$$R^{2}$$

$$R^{2}$$

$$R^{3}$$

$$R^{2}$$

$$R^{4}$$

$$R^{2}$$

$$R^{4}$$

$$R^{2}$$

$$R^{4}$$

$$R$$

Another method for preparing the triketones 6 of Scheme 2 employs the condensation of a 1,3-diketone 6a with 315 nitrophthalic anhydride as described in Rotberg and Oshkaya,
2h. Organ. Khim. 8:84-87, 1972; Zh. Organ. Khim. 9:25482550, 1973, the contents of which are hereby incorporated herein by reference. The 1,3-diketones, when not commercially available can be readily prepared by one
20 skilled in the art by the acetylation or trifluoroacetylation of the requisite methyl ketone, R¹COCH₃.

5 Reduction of the nitro derivative 6b to the aniline 6c can be accomplished in a variety of ways including catalyic hydrogenation, treatment with zinc or iron under acidic conditions, or treatment with other reducing agents such as sodium dithionite or stannous chloride. Subsequently the aniline 6c can be converted to the indeno[1,2-c]pyrazol-4-ones of this invention by acylation followed by treatment with hydrazine as described previously in Scheme 2.

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Another method for making the indeno[1,2-c]pyrazol-4one ring system is shown in Scheme 4. Dimethyl hydrazine was
reacted with 3-acetylpyridine with no solvent to give the
hydrazone 7. This was treated in a similar fashion as
described in Scheme 1 to give the desired intermediate 8.

Additional means of preparing similar intermediates are
known to one skilled in the art as described in Rappoport,
J. Org. Chem. 49:2948-2953, 1984, the contents of which are
hereby incorporated herein by reference. This intermediate

WU 99/54308 FC170/593/1000/10

5 was carried through the sequence in a similar fashion as described in Scheme 1.

Other features of the invention will become apparent during the following descriptions of exemplary embodiments which are given for illustration of the invention and are not intended to be limiting thereof.

### Examples

Abbreviations used in the Examples are defined as follows: "°C" for degrees Celsius, "CIMS" for chemical ionization mass spectroscopy, "eq" for equivalent or equivalents, "g" for gram or grams, "h" for hour or hours, "mg" for milligram or milligrams, "mL" for milliliter or milliliters, "mmol" for millimolar, "M" for molar, "min" for minute or minutes, "p-TsOH" for para-toluenesulphonic acid, "DMF" for dimethylformamide, and "TFA" for trifluoroacetic acid.

### Example I

Preparation of 3-(4-methoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Step 1. Synthesis of 2 from dimethyl 3-nitrophthalate.

A solution of dimethyl 3-nitrophthalate (25 g, 105 mmol) in methanol (100 mL) was treated with 5% Pd/C (2.5 g)

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and hydrogenated on a Parr Shaker at 50 psi for 2 h. The solution was filtered (Celite), the filtrate collected and the solvent removed at reduced pressure. The residue was dissolved in acetic anhydride (20 mL) treated with pyridine (0.05mL) and heated to 80 °C for 1 min. The reaction was cooled and stirred at 25°C for 2 h. The solvent was removed at reduced pressure and the residue recrystallized from ethanol to give the product as a white solid (21 g, 79%). mp 104-105 °C; CIMS m/e calc'd for C12H14NO5: 252.0872, found 252.0888; Analysis calc'd for C12H13NO5: C, 57.37; H, 5.22; N, 5.58; found: C, 57.67; H, 5.29; N, 5.77.

Step 2. Synthesis of triketone 11 from 2.

A solution of 2 (1 g, 4.0 mmol) in dry DMF (2 mL) was treated with sodium hydride (0.15 g, 60% suspension in 20 oil, 0.4 mmol) in one portion. After 1 h, 4methoxyacetophenone (0.6 g, 4.0 mmol) was added in one portion and the reaction heated to 90 °C. A second portion of sodium hydride (0.15 g, 60% suspension in oil, 0.4 mmol) was added and the exothermic reaction turns deep red. After 25 20 min, the reaction was cooled to 25 °C, diluted with water (20 mL), extracted with EtOAc (10 mL) and the aqueous phase separated. The aqueous phase was acidified with 2 N HCl to pH 2 and the crude product collected. Recrystalization with ethanol gave the desired product as a yellow solid (0.4 g, 30 30%). mp 174-175 °C; CIMS m/e calc'd for C19H16NO5: 338.1028, found 338.1022; Analysis calc'd for C19H15NO5: C, 67.65; H, 4.48; N, 4.15; found: C, 67.87; H, 4.29; N, 3.99.

35 Step 3. Synthesis of 12 from 11.

A solution of 11 (0.2 g, 0.6 mmol) in EtOH (5 mL) was treated with hydrazine hydrate (0.1 mL, 1.8 mmol) and p-TsOH (3 mg). The reaction was heated to reflux and stirred for 2 h. The reaction was cooled to 25 °C and the product

collected as a yellow solid (0.1 g, 50%). mp 268 °C; CIMS m/e calc'd for C<sub>19</sub>H<sub>16</sub>N<sub>3</sub>O<sub>3</sub>: 334.1192, found: 334.1168;

Analysis calc'd for C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>: C, 68.46; H, 4.54; N, 12.61; found: C, 68.81; H, 4.39; N, 12.45.

10 Example II

Preparation of 3-(4-methoxyphenyl)-5-(chloroacetamido)indeno[1,2-c]pyrazol-4-one

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Step 1. Synthesis of 13 from 12.

A suspension of 12 (1.0 g, 3.0 mmol) in MeOH (10 mL) was treated with conc. HCl (1 mL) and heated to reflux.

20 After 2 h, the reaction was cooled and the product was collected as a greenish solid (0.7 g, 81%). mp 273 °C; CIMS m/e calc'd for Cl7Hl4N3O2: 292.1086, found: 292.1080; Analysis calc'd for Cl7Hl3N3O2: C, 69.85; H, 4.83; N, 14.37; found: C, 69.99; H, 4.59; N, 14.44.

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Step 2. Synthesis of 14 from 13.

A suspension of 13 (20 mg, 0.07 mmol) in dioxane (2 mL) was treated with aqueous sat. NaHCO3 (1 mL) and chloroacetyl chloride (30 mL, 0.21 mmol). The reaction was heated to 50 °C and stirred for 2 h. The reaction was cooled, poured into

water (2 mL), extracted with EtOAc (10 mL), the organic layer separated, dried (MgSO<sub>4</sub>) and the solvent removed at reduced pressure. The solid residue was recrystallized from EtOH to give the product as a yellow solid (9 mg, 35%). mp 274 °C; CIMS m/e calc'd for C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>Cl: 368.0802, found: 368.0818.

### Example III

Preparation of 3-(4-methoxyphenyl)-5-(cyclopropylamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example II using cyclopropylacetyl chloride as the starting material. mp 289 °C; CIMS m/e calc'd for  $C_{21}H_{18}N_{3}O_{3}$ : 360.1348, found: 360.1330.

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### Example IV

Preparation of 3-(4-methoxyphenyl)-5-(isopropylamido)indeno[1,2-c]pyrazol-4-one

25 Prepared in a similar fashion as described for example II using isopropylacetyl chloride as the starting material. mp 288 °C; CIMS m/e calc'd for  $C_{21}H_{20}N_{3}O_{3}$ : 362.1505, found: 362.1535.

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### Example V

Preparation of 3-(4-methoxyphenyl)-5-(ethylamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example II using propionyl chloride as the starting material. mp 287 °C; CIMS m/e calc'd for  $C_{20}H_{18}N_{3}O_{3}$ : 348.1348, found: 348.1313.

### Example VI

Preparation of 3-(4-methoxyphenyl)-5(cyclopentylamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example II using cyclopentylacetyl chloride as the starting

material. mp 267 °C; CIMS m/e calc'd for C23H22N3O3:

388.1661, found: 388.1626.

### Example VII

Preparation of 3-(4-methoxyphenyl)-5-(cyclobutylamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example II using cyclobutylacetyl chloride as the starting material. mp 297 °C; CIMS m/e calc'd for  $C_{22}H_{20}N_{3}O_{3}$ : 374.1505, found: 374.1530.

### Example VIII

Preparation of 3-(4-methoxyphenyl)-5-(phenylacetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example II using phenylacetyl chloride as the starting material. mp 280 °C; CIMS m/e calc'd for  $C_{25}H_{20}N_{3}O_{3}$ : 410.1505, found: 410.1533.

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### Example IX

Preparation of 3-(4-methoxyphenyl)-5-(butylamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example II using butyryl chloride as the starting material. mp 282 °C; CIMS m/e calc'd for  $C_{21}H_{20}N_{3}O_{3}$ : 362.1505, found: 362.1500.

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### Example X

Preparation of 3-(4-methoxyphenyl)-5-((4-chlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example

II using 4-chlorophenylacetyl chloride as the starting
material. mp 238 °C; CIMS m/e calc'd for C25H19N3O3Cl:

444.1115, found: 444.1110.

### Example XI

Preparation of 3-(4-methoxyphenyl)-5-((3-methoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example II using 3-methoxyphenylacetyl chloride as the starting material. mp >300 °C; CIMS m/e calc'd for C26H22N3O4: 440.1610, found: 440.1620.

### Example XII

Preparation of 3-(4-methoxyphenyl)-5-((4-methoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example II using 4-methoxyphenylacetyl chloride as the starting material. mp 280 °C; CIMS m/e calc'd for  $C_{26}H_{22}N_{3}O_{4}$ : 440.1610, found: 440.1630.

### Example XIII

Preparation of 3-(4-methoxyphenyl)-5-((3,4-dimethoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example II using 3,4-dimethoxyphenylacetyl chloride as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{27}H_{24}N_{3}O_{5}$ : 470.1716, found: 470.1731.

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### Example XIV

Preparation of 3-(4-methoxyphenyl)-5-((2,5-dimethoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one

- Prepared in a similar fashion as described for example II using 2,5-dimethoxyphenylacetyl chloride as the starting material. mp 226 °C; CIMS m/e calc'd for C27H24N3O5: 470.1716, found: 470.1739.
- 15 Example XV

Preparation of 3-(2-methoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example I using 2-methoxyacetophenone as the starting material. mp 276 °C; CIMS m/e calc'd for  $C_{19}H_{16}N_{3}O_{3}$ : 334.1192, found: 334.1169.

### Example XVI

Preparation of 3-(3,4-dimethoxyphenyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example I using 3,4-dimethoxyacetophenone as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{20}H_{18}N_{3}O_{4}$ : 364.1297, found: 364.1288.

### Example XVII

Preparation of 3-(4-methoxyphenyl)-5-((3,4-

ethylenedioxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Step 1. Synthesis of 15 from 11.

A suspension of 11 (5 g, 14.8 mmol) in MeOH (50 mL) was treated with conc. HCl (3 mL) and heated to reflux. After stirring for 2 h, the reaction was cooled to 0 °C and the product collected as a yellow solid (4.2 g, 96%). mp 173 °C; CIMS m/e calc'd for C17H14NO4: 296.0923, Found: 296.0901.

15 Step 2. Synthesis of 16 from 15.

A suspension of 15 (20 mg, 0.07 mmol) in acetone (2 mL) was treated with NaHCO3 (10 mg) and the acid chloride of (3,4-methylenedioxyphenyl)acetic acid (prepared by heating the acid in a benzene:thionyl chloride 4:1 mixture at 50 °C for 2 h, removing the volatile components at reduced pressure, and using the crude acid chloride without further purification). The reaction was heated to 50 °C and stirred for 2 h. The reaction was cooled, poured into water (4 mL), extracted with EtOAc (10 mL), dried (MgSO4), filtered and concentrated. The crude triketone was suspended in EtOH (2 mL), treated with hydrazine hydrate (0.05 mL) and p-TsOH (1 mg) and heated to reflux for 2 h. The reaction was cooled to 0 °C and the product filtered to give a yellow solid (6.5 mg, 20%). mp 297 °C; CIMS m/e calc'd for C26H20N3O5: 454.1403, Found: 454.1398.

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### Example XVIII

Preparation of 3-(4-dimethoxyphenyl)-5-((3-thiophene)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XVII using the acid chloride of 3-thiopheneacetic acid as the starting material. mp 293 °C; CIMS m/e calc'd for C23H18N3O3S: 416.1069, found: 416.1088.

### Example XIX

Preparation of 3-(4-methoxyphenyl)-5-((2-methoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XVII using the acid chloride of 2-methoxyphenylacetic acid as the starting material. mp 255 °C; CIMS m/e calc'd for C26H22N3O4: 440.1610, found: 440.1622.

### Example XX

Preparation of 3-(4-methoxyphenyl)-5-((3,4dichlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XVII using the acid chloride of 3,4-dichlorophenylacetic acid as the starting material. mp 299 °C; CIMS m/e calc'd for  $C_{25}H_{18}N_{3}O_{3}Cl_{2}$ : 478.0725, found: 478.0744.

### Example XXI

Preparation of 3-(4-methoxyphenyl)-5-((2,4-dichlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XVII using the acid chloride of 2,4-dichlorophenylacetic

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5 acid as the starting material. mp 286 °C; CIMS m/e calc'd for C25H18N3O3Cl2: 478.0725, found: 478.0734.

### Example XXII

Preparation of 3-(4-methoxyphenyl)-5-((2-chlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XVII using the acid chloride of 2-chlorophenylacetic acid as the starting material. mp 300 °C; CIMS m/e calc'd for  $C_{25H_19N_3O_3Cl}$ : 444.1115, found: 444.1111.

### Example XXIII

Preparation of 3-(4-methoxyphenyl)-5(aminoacetamido)indeno[1,2-c]pyrazol-4-one

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A suspension of 14 (15 mg, 0.04 mmol) in EtOH (1 mL) was treated with conc. NH4OH (1 mL), placed in a sealed tube and heated to 80 °C for 3 h. The reaction was cooled and the solvent removed at reduced pressure. The residue was recrystallized from EtOH to give the product as a yellow solid (9 mg, 62%). mp >300 °C; CIMS m/e calc'd for C20H19N4O3: 363.1457, Found: 363.1431.

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### Example XXIV

Preparation of 3-(4-methoxyphenyl)-5-((2-hydroxyethyl)aminoacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using hydroxylamine as the starting material. mp 243  $^{\circ}$ C; CIMS m/e calc'd for  $C_{21}H_{21}N_4O_4$ : 393.1563, found: 393.1539.

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### Example XXV

Preparation of 3-(4-methoxyphenyl)-5-(N,N-dimethylaminoacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using dimethylamine as the starting material. mp 279 °C; CIMS m/e calc'd for  $C_{21}H_{21}N_4O_3$ : 377.1614, found: 377.1640.

### Example XXVI

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Preparation of 3-(4-methoxyphenyl)-5(piperazinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using piperazine as the starting material. mp 277 °C; CIMS m/e calc'd for C23H24N5O3: 418.1879, found: 418.1899.

#### Example XXVII

Preparation of 3-(4-methoxyphenyl)-5-(4-methylpiperazinylacetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XXIII using 4-methylpiperizine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{24}H_{26}N_{5}O_{3}$ : 432.2036, found: 432.2030.

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### Example XXVIII

Preparation of 3-(4-methoxyphenyl)-5-(4-(2-hydroxyethyl)piperazinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-hydroxyethylpiperizine as the starting material. mp >300 °C; CIMS m/e calc'd for C25H28N5O4: 462.2141, found: 462.2128.

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### Example XXIX

Preparation of 3-(4-methoxyphenyl)-5(piperidinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using piperidine as the starting material. mp 291 °C; CIMS m/e calc'd for  $C_{24}H_{25}N_{4}O_{3}$ : 417.1927, found: 417.1955.

### Example XXX

Preparation of 3-(4-methoxyphenyl)-5-(4-

aminomethylpiperidinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-aminomethylpiperidine as the starting material. mp >300 °C; CIMS m/e calc'd for C25H28N5O3: 446.2192, found: 446.2166.

### Example XXXI

Preparation of 3-(4-methoxyphenyl)-5-(ethylaminoacetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XXIII using ethylamine as the starting material. mp 250 °C; CIMS m/e calc'd for C21H21N4O3: 377.1614, found: 377.1644.

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### Example XXXII

Preparation of 3-(4-methoxyphenyl)-5(thiomorpholinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using thiomorpholine as the starting material. mp 298 °C; CIMS m/e calc'd for C23H23N4O3S: 435.1491, found: 435.1477.

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### Example XXXIII

Preparation of 3-(4-methoxyphenyl)-5(morpholinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using morpholine as the starting material. mp 295 °C; CIMS m/e calc'd for C23H23N4O4: 419.1719, found: 419.1744.

### Example XXXIV

Preparation of 3-(4-methoxyphenyl)-5(pyrrolidinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using pyyrolidine as the starting material. mp 279 °C; CIMS m/e calc'd for  $C_{23}H_{23}N_4O_3$ : 403.1770, found: 403.1761.

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### Example XXXV

Preparation of 3-(4-methoxyphenyl)-5-(4-pyridinylaminomethylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-aminomethylpyridine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{25}H_{22}N_{5}O_{3}$ : 440.1723, found: 440.1762.

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### Example XXXVI

Preparation of 3-(4-methoxyphenyl)-5-((4-acetamidophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

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A suspension of 18 (10 mg, 0.02 mmol) in dioxane (1 mL) was treated with aqueous sat. NaHCO3 (0.5 mL) and acetyl chloride (0.01 mL) and heated at 50 °C for 1 h. The reaction was cooled, poured into water (5 mL), extracted with EtOAc 10 (10 mL), the organic layer separated, dried (MgSO4) and the solvent removed at reduced pressure. The residue was recrystallized from EtOH to give the product as a yellow solid (5.6 mg, 61%). mp 268 °C; CIMS m/e calc'd for C27H23N4O4: 467.1719, Found: 467.1730.

### Example XXXVII

Preparation of 3-(4-methoxyphenyl)-5-((4methoxycarbonylaminophenyl) acetamido)

indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXXII using methylchloroformate as the starting material. mp 257 °C; CIMS m/e calc'd for C27H23N4O5: 483.1668, found: 483.1633.

#### Example XXXVIII

Preparation of 3-(4-methoxyphenyl)-5-((4aminomethylcarbonylaminophenyl)acetamido) indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII and XXXII using chloroacetyl chloride and conc. NH4OH as the starting materias. mp 228 °C; CIMS m/e calc'd for C27H24N5O4: 482.1828, found: 482.1844.

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### Example XXXIX

# Preparation of 3-(4-methoxyphenyl)-5-((4-N,N-dimethylaminomethylcarbonylaminophenyl)acetamido) indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XXIII and XXXII using chloroacetyl chloride and dimethyl amine as the starting materias. mp >300 °C; CIMS m/e calc'd for  $C_{29}H_{28}N_{5}O_{4}$ : 510.2141, found: 510.2121.

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### Example XL

### Preparation of 3-(4-methoxyphenyl)-5-((4-azidophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

A solution of example XXXVI (20 mg, 0.04 mmol) in DMF (2 mL) was treated with 5% palladium on carbon (5 mg) and hydrogentaed at atmospheric pressure using a hydrogen baloon. After 2 h, the solution was filtered (Celite), and the solvent removed at reduced pressure. The residue was recrystallized from EtOH to give the product as a yellow solid (15 mg, 78%). mp >300 °C; CIMS m/e calc'd for C25H19N6O3: 451.1519, found: 451.1544.

### Example XLI

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# Preparation of 3-(4-methoxyphenyl)-5-((4-aminophenyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXVII using the acid chloride of 4-azidophenylacetic acid as the starting material. mp 283°C; CIMS m/e calc'd for C25H21N4O3: 425.1614, found: 425.1643.

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### Example XLII

### Preparation of 3-(4-methoxyphenyl)-5-

(phenylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Step 1. Synthesis of 20 from 15.

A suspension of 15 (0.5 g, 1.7 mmol) in acetone (10 mL)

was treated with NaHCO3 (0.5 g) and phenyl chloroformate.

The mixture was heated to 50 °C for 2 h. The reaction was cooled, poured into water (20 mL), extracted with EtOAc (40 mL), the organic layer separated, dried (MgSO4) and the solvent removed at reduced pressure. The residue was

suspended in EtOH (10 mL) and treated with hydrazine hydrate (0.16 mL, 5.1 mmol) and p-TsOH (10 mg). The mixture was heated to reflux and stirred for 3 h. The reaction was cooled to 0 °C and the product collected as a yellow solid (0.25 g, 36%). mp 195 °C; CIMS m/e calc'd for C24H18N3O4:

412.1297, Found: 412.1308.

Step 2. Synthesis of 21 from 20.

A solution of 20 (20 mg, 0.05 mmol) in DMSO (2 mL) was treated with aniline (20 mL, mmol) and dimethylaminopyridine (1 mg). The mixture was heated to 80 °C for 2 h. The reaction was cooled, poured into water (4 mL), extracted with EtOAc (15 mL), the organic layer separated, dried (MgSO4) and the solvent removed at reduced pressure. The residue was recrystallized from EtOH to give the product as a yellow solid (9 mg, 44%). mp >300 °C; CIMS m/e calc'd for C24H19N4O3: 411.1457, Found: 411.1432.

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### Example XLIII

Preparation of 3-(4-methoxyphenyl)-5(butylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example 20 XLII using butyl amine as the starting material. mp 252 °C; CIMS m/e calc'd for  $C_{21}H_{21}N_4O_3$ : 377.1614, found: 377.1633.

### Example XLIV

Preparation of 3-(4-methoxyphenyl)-5-(4-

aminobenzylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLII using 4-aminobenzyl amine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{25}H_{22}N_{5}O_{3}$ : 440.1723, found: 440.1700.

### Example XLV

Preparation of 3-(4-methoxyphenyl)-5-(4-pyridylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XLII using 4-aminomethylpyridine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{24}H_{20}N_{5}O_{3}$ : 426.1566, found: 426.1533.

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### Example XLVI

### Preparation of 3-(4-hydroxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

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A suspension of 12 (20 mg, 0.07 mmol) in  $CH_2Cl_2$  (2 mL) was treated with excess BBr<sub>3</sub> (1.0 mL, 1.0 M in  $CH_2Cl_2$ ) and stirred for 20 h. The reaction was slowly poured into aqueous sat. NaHCO<sub>3</sub> (5 mL), extracted with EtOAc (10 mL), dried (MgSO<sub>4</sub>) and concentrated. The residue was recrystallized from EtOH to give the desired product as a yellow solid (7.5 mg, 33%). mp >300 °C; CIMS m/e calc'd for  $C_{18H_14N_3O_3}$ : 320.1035, Found: 320.1050.

### Example XLVII

### Preparation of 3-(4-methoxyphenyl)-5-(formamido)indeno[1,2-c]pyrazol-4-one

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A suspension of 13 (20 mg, 0.06 mmol) in formic acid (2 mL) was heated to 100 °C for 2 h. The reaction mixture was cooled and the solvent removed at reduced pressure. The residue was recrystallized from EtOH to give the desired

product as a yellow solid (12 mg, 63%). mp 280 °C; CIMS m/e calc'd for  $C_{18}H_{14}N_{3}O_{3}$ : 320.1035, Found: 320.1040.

### Example XLVIII

Preparation of 3-(3-pyridyl)-5-(acetamido)indeno
[1,2-c]pyrazol-4-one

15 Step 1. Synthesis of 24 from 3-acetylpyridine.

A solution of 3-acetylpyridine (1.0 g, 8.3 mmol) in benzene (3 mL) was treated with 1,1-dimethylhydrazine (0.62 mL, 8.3 mmol) and p-TsOH (5 mg). The mixture was heated to 85 °C and stirred for 3 h. The reaction was cooled and the solvent removed at reduced pressure. This crude hydrazone was treated with 1.0 M NaN(TMS)2 in THF (16.6 mL, 16.6 mmol) at 25 °C over 5 min. After 30 min dimethyl 3-acetamidophthalate (2.1 g, 8.3 mmol) was added in one portion and the reaction heated to reflux. Stirring was continued for 6 h. The reaction was cooled and quenched by the slow addition of TFA. The solvent was removed at reduced pressure and the residue chromatographed (silica, 2.5-5 % MeOH/CH<sub>2</sub>Cl<sub>2</sub>) to give the product as a yellow solid (0.35 g, 14%). mp 265 °C; CIMS m/e calc'd for Cl<sub>7</sub>Hl<sub>3</sub>N<sub>2</sub>O<sub>4</sub>: 309.0875, Found: 309.0888.

Step 2. Synthesis of 25 from 24.

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A suspension of 24 (30 mg, 0.09 mmol) in EtOH (2 mL) was treated with hydrazine hydrate (0.05 mL) and p-TsOH (1 mg) and heated to reflux. After stirring for 2 h. the reaction was cooled and the product filtered to give a yellow solid (12 mg, 44%). mp >300 °C; CIMS m/e calc'd for  $C_{17}H_{13}N_{4}O_{2}$ : 305.1039, Found: 305.1048.

### Example XLIX

### Preparation of 3-(4-pyridyl)-5-(acetamido)indeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLVIII using 4-acetylpyridine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{17}H_{13}N_4O_2$ : 305.1039, found: 305.1046.

### Example L

### Preparation of 3-(4-pyridyl)-5-(formamido)indeno [1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XLVII using 4-acetylpyridine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{16}H_{11}N_4O_2$ : 291.0882, found: 291.0882.

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#### Example LI

# Preparation of 3-phenyl-5-(acetamido)indeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example I using acetophenone as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{18}H_{13}N_{3}O_{2}$ : 304.1065, found: 304.1086.

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### Example LII

### Preparation of 3-(4-methylthiophenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example

10 I using 4'-methylthioacetophenone as the starting material.

mp 283 °C; CIMS m/e calc'd for C19H15N3O2S: 350.0956, found:
350:0963.

### Example LIII

Preparation of 3-(4-methylsulphonylphenyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared by oxidation of the product of example LII. mp >300 °C; CIMS m/e calc'd for  $C_{19}H_{15}N_{3}O_{4}S$ : 382.0860, found: 382.0862.

### Example LIV

Preparation of 3-(4-N,N-dimethylaminophenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example I using 4'-N,N,-dimethylaminoacetophenone as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{20}H_{18}N_{4}O_{2}$ : 347.1496, found: 347.1508.

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### Example LV

Preparation of 3-(4-N,N-dimethylaminophenyl)-5-(morpholinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LIV and morpholine as the starting materials. mp >300 °C; CIMS m/e calc'd for  $C_{24}H_{26}N_{5}O_{3}$ : 432.2036, found: 432.2020.

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### Example LVI

Preparation of 3-(4-N, N-dimethylaminophenyl)-5-(dimethylaminoacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LIV and dimethylamine as the starting materials. mp >300 °C; CIMS m/e calc'd for C22H24N5O2: 390.1930, found: 390.1948.

15 Example LVII

Preparation of 3-(4-(1-piperidinyl)phenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example

1 using 4'-(1-piperidinyl)acetophenone as the starting
material. mp 291 °C; CIMS m/e calc'd for C23H22N4O2:

387.1801, found: 387.1821.

### Example LVIII

Preparation of 3-(4-morpholinyl)phenyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example I using 4'-morpholinylacetophenone as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{22}H_{20}N_{4}O_{3}$ : 388.1528, found: 388.1535.

### Example LIX

Preparation of 3-(4-ethoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example I using 4'-et

5 288 °C; CIMS m/e calc'd for  $C_{20}H_{17}N_{3}O_{3}$ : 348.1325, found: 348.1348.

### Example LX

Preparation of 3-(4-butylphenyl)-5-(acetamido)indeno[1,210 c]pyrazol-4-one

Prepared in a similar fashion as described for example I using 4'-butylacetophenone as the starting material. mp 259 °C; CIMS m/e calc'd for  $C_{22}H_{21}N_{3}O_{2}$ : 360.1701, found: 360.1712.

### Example LXI

Preparation of 3-(4-ethylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example I using 4'-ethylacetophenone as the starting material. mp  $^{294}$  °C; CIMS m/e calc'd for  $C_{20}H_{17}N_{3}O_{2}$ : 331.1310, found: 331.1321.

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### Example LXII

Preparation of 3-(4-n-propylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example I using 4'-n-propylacetophenone as the starting material. mp 269 °C; CIMS m/e calc'd for  $C_{21}H_{19}N_{3}O_{2}$ : 346.1555, found: 346.1554.

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### Example LXIII

Preparation of 3-(4-methoxyphenyl)-5carbamoylaminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLII using concentrated ammonium hydroxide as the starting material. mp >300 °C; CIMS m/e calc'd for C18H15N4O3: 335.1144, found: 335.1113.

10 Example LXIV

Preparation of 3-(4-methoxyphenyl)-5'(dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLII using dimethylamino hydrazine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{20}H_{20}N_{5}O_{3}$ : 378.1566, found: 378.1555.

### Example LXV

20 Preparation of 3-(4-methoxyphenyl)-5
(methylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLII using methylamine as the starting material. mp >300 °C; CIMS m/e calc'd for C19H17N4O3: 349.1300, found: 349.1311.

### Example LXVI

Preparation of 3-(4-methoxyphenyl)-5(morpholinocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLII using N-aminomorpholine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{22}H_{22}N_5O_4$ : 420.1671, found: 420.1655.

### Example LXVII

Preparation of 3-(4-methoxyphenyl)-5-(cis-2-aminocyclohexanylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XLII using cis-1,2-diaminocyclohexane as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{24}H_{26}N_{5}O_{3}$ : 432.2035, found: 432.2020.

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### Example LXVIII

Preparation of 3-(4-methoxyphenyl)-5-(4-methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XLII using (4-amino)methylpiperazine as the starting material. mp >300 °C; CIMS m/e calc'd for C23H25N6O3: 433.1987, found: 433.1999.

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### Example LXIX

Preparation of 3-(4-methoxyphenyl)-5-(4-uridomethylpiperadinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using example XXX as the starting material. mp >300 °C; CIMS m/e calc'd for C26H29N6O4: 489.2250, found: 489.2209.

### Example LXX

Preparation of 3-(4-methoxyphenyl)-5-(4-(2-pyridyl)piperazinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-(2-pyridyl)piperazine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{28}H_{27}N_{6}O_{3}$ : 495.2144, found: 495.2111.

### Example LXXI

Preparation of 3-(4-methoxyphenyl)-5-(4
(aminoethyl)piperazinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-(aminoethyl)piperazine as the starting material. mp >300 °C; CIMS m/e calc'd for C25H29N6O3: 461.2300, found: 461.2333.

### Example LXXII

Preparation of 3-(4-methoxyphenyl)-5-(4amidopiperadinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using isonipecotamide as the starting material. mp >300 °C; CIMS m/e calc'd for C25H26N5O4: 460.1984, found: 460.1998.

### Example LXXIII

Preparation of 3-(4-methoxyphenyl)-5-(4-hydroxypiperadinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-hydroxypiperadine as the starting material. mp >300 °C; CIMS m/e calc'd for C24H25N4O4: 433.1875, found: 433.1844.

#### Example LXXIV

Preparation of 3-(4-methoxyphenyl)-5-(4-hydroxmethylypiperadinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-hydroxmethylypiperadine as the starting

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5 material. mp >300 °C; CIMS m/e calc'd for  $C_{25}H_{27}N_{4}O_{4}$ : 447.2032, found:447.2002.

### Example LXXV

Preparation of 3-(4-methoxyphenyl)-5-(4-

amidopiperazinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-amidopiperazine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{24}H_{25}N_{6}O_{6}$ : 493.1835, found:493.1802

### Example LXXVI

Preparation of 3-(4-methoxyphenyl)-5-(4-dimethylaminopiperadinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-dimethylaminopiperadine as the starting material. mp >300 °C; CIMS m/e calc'd for  $C_{26}H_{30}N_{5}O_{5}$ : 492.2246, found:492.2220.

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### Example LXXVII

Preparation of 3-(4-methoxyphenyl)-5-(4-aminopiperadinylacetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-aminopiperadine as the starting material. mp >300 °C; CIMS m/e calc'd for C24H26N5O5: 464.1933, found:464.1975.

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### Example LXXVIII

Preparation of 3-(4-(dimethylamino)phenyl)-5-((4-methyl-1-piperazinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LIV and 1-methylpiperazine as the starting materials. mp >300 °C; ESI-MS m/e calc'd for C25H29N6O2: 445.2352, found: 445.2359.

### 10 Example LXXIX

Preparation of 3-(4-(dimethylamino)phenyl)-5-((4-aminomethyl-1-piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LIV and 4- (aminomethyl)piperidine as the starting materials. ESI-MS m/e calc'd for C<sub>26</sub>H<sub>31</sub>N<sub>6</sub>O<sub>2</sub>: 459.2508, found: 459.2508.

20 Example LXXX

Preparation of 3-(4-(dimethylamino)phenyl)-5-((4-hydroxy-1-piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples
II and XXIII employing the product of example LIV and 4hydroxypiperidine as the starting materials. mp 267 °C; ESIMS m/e calc'd for C25H28N5O3: 446.2192, found: 446.2206.

### Example LXXXI

Preparation of 3-(4-(4-morpholinyl)phenyl)-5-(4-morpholinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LVIII and morpholine as the starting materials. mp 258 °C; ESI-MS m/e calc'd for C26H28N5O4: 474.2141, found: 474.2151.

### Example LXXXII

Preparation of 3-(4-(4-morpholinyl)phenyl)-5-((4-methyl-1-piperazinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LVIII and 1-methylpiperazine as the starting materials. mp 258 °C; ESI-MS m/e calc'd for C27H31N6O3: 487.2457, found: 487.2447.

### Example LXXXIII

Preparation of 3-(4-(4-morpholinyl)phenyl)-5-((4-hydroxy-1-piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LVIII and 4-hydroxypiperidine as the starting materials. mp 245 °C; ESI-20 MS m/e calc'd for C27H30N5O4: 488.2298, found: 488.2290.

### Example LXXXIV

Preparation of 3-(4-(4-morpholinyl)phenyl)-5-((4-aminomethyl-1-piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-

one

Prepared in a similar fashion as described for examples II and XXIII employing the product of example LVIII and 4-(aminomethyl)piperidine as the starting materials. mp 240 °C; ESI-MS m/e calc'd for C<sub>28</sub>H<sub>33</sub>N<sub>6</sub>O<sub>3</sub>: 501.2614, found: 501.2619.

### Example LXXXV

Preparation of 3-(4-(dimethylamino)phenyl)-5-((((4-methyl-1-35 piperazinyl)amino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples I, XXVII, and XLII employing the 4-(dimethylamino) acetophenone and 1-amino-4-methylpiperazine as the starting

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5 materials. mp >300 °C; ESI-MS m/e calc'd for  $C_{24}H_{28}N_{7}O_{2}$ : 446.2304, found: 446.2310.

### Example LXXXVI

Preparation of 3-(i-propyl)-5-

(acetamido) indeno[1,2-c]pyrazol-4-one

15 Step 1. Synthesis of 26 from 3-nitrophthalic anhydride.

A solution of 3-nitrophthalic anhydride (9.7 g, 50 mmol) and 1,1,1-trifluoro-5-methyl-2,4-hexanedione (9.1 g, 50 mmol) in acetic anhydride (28.3 mL, 300 mmol) was treated with triethylamine (13.95 mL, 100 mmol) and stirred at 25 °C for 4 h. The solution was diluted with 1 N HCl (200 mL) and the precipate collected and washed with water (200 mL) and hexane (400 mL) to give the product as a yellow solid (11.1 g, 85%). mp 127-129 °C; CIMS (M+H) calc'd for C13H12NO5: 262.0715, found: 262.0694.

Step 2. Synthesis of triketone 27 from 26.

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A solution of 26 (11 g, 42 mmol) in EtOH (224 mL) and water (56 mL) was treated with zinc (90 g, 1.4 mol) and calcium chloride (3 g, 27 mmol) and heated to reflux for 16 h. The reaction was filtered (Celite) and the filtrate was concentrated at reduced pressure to give an aqueous residue which was extracted with EtOAc (100 mL). The organic layer was separated and washed with sat. EDTA (100 ml) and brine (100 mL), dried (MgSO4), filtered, and concentrated at reduced pressure to give a yellow solid. Trituration with hexane gave the product as a yellow solid (7.1 g, 73%). mp 241-243 °C; CIMS (M+H) calc'd for Cl3H14NO3: 232.0974, found: 232.0962.

Step 3. Synthesis of 28 from 27.

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A solution of 27 (500 mg, 2.16 mmol) in CH2Cl2 (5 mL) was treated with Et3N (0.36 mL, 2.59 mmol) and stirred at 25 °C for 15 min. The reaction mixture was treated with acetyl chloride (0.18 mL, 2.38 mmol) and stirred at 25 °C for 1 h.

The reaction mixture was quenched with 1 N HCl (20 mL) and extracted with EtOAc (20 mL). The organic layer was separated, dried (MgSO4), filtered, and concentrated at reduced pressure to give a brown residue. Trituration with hexane gave the product as a tan solid (484 mg, 82%). mp

241-243 °C; CIMS (M+H) calc'd for C15H16NO4: 274.1079, found: 274.1093.

Step 4. Synthesis of 29 from 28.

A solution of **28** (240 mg, 0.88 mmol) in BuOH (5 mL) was treated with hydrazine hydrate (0.055 mL, 1.76 mmol) and p-TsOH (8.4 mg, 0.044 mmol). The reaction was heated to reflux and stirred for 4 h. The reaction was cooled to 25 °C and the solvent removed at reduced pressure. Recrystalization with i-propyl alcohol gave the product collected as an off-

5 white solid (173 mg, 73%). mp >250 °C; ESIMS (M+H) calc'd for C<sub>15</sub>H<sub>16</sub>N<sub>3</sub>O<sub>2</sub>: 270.1242, found: 270.1258.

## Example LXXXVII

Preparation of 3-(c-propyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using the c-propyl analog of 26 as the starting material. mp 220-221 °C; CIMS (M+H) calc'd for C15H14N3O2: 268.1086, found: 268.1078.

### Example LXXXVIII

Preparation of 3-(t-butyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using the t-butyl analog of 26 as the starting material. mp >250 °C; CIMS (M+H) calc'd for  $C_{16}H_{18}N_{3}O_{2}$ : 284.1399, found: 284.1395.

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#### Example LXXXIX

Preparation of 3-(2-thienyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using the 2-thienyl analog of **26** as the starting material. mp 269 °C; CIMS (M+H) calc'd for C<sub>16</sub>H<sub>12</sub>N<sub>3</sub>O<sub>2</sub>S: 310.0650, found: 310.0635.

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#### Example XC

Preparation of 3-(3-methyl-2-thienyl)-5(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using the 3-methyl-2-thienyl analog of 26 as the starting material. mp 275 °C; ESIMS (M+H) calc'd for C17H14N3O2S: 324.0811, found: 324.0807.

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# Example XCI

Preparation of 3-(ethyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the ethyl analog of 15 as the starting materials. mp >250 °C; CIMS (M+H) calc'd for C13H13N4O2: 257.1039, found: 257.1033.

#### Example XCII

20 Preparation of 3-(n-propyl)-5(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the n-propyl analog of 15 as the starting materials. mp 187-189 °C; CIMS (M+H) calc'd for  $C_{14}H_{15}N_{4}O_{2}$ : 271.1195, found: 271.1187.

#### Example XCIII

Preparation of 3-(i-propyl)-5(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the i-propyl analog of 15 as the starting materials. mp >250 °C; CIMS (M+H) calc'd for  $C_{14}H_{15}N_{4}O_{2}$ : 271.1195, found: 271.1196.

### Example XCIV

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5 Preparation of 3-(c-propyl)-5(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the c-propyl analog of **15** as the starting materials. mp 252-253 °C; ESIMS (M-H) calc'd for C14H11N4O2: 267.0881, found: 267.0884.

## Example XCV

Preparation of 3-(c-hexyl)-5-

(carbamoyl) aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the c-hexyl analog of **15** as the starting materials. mp 178-179 °C; ESIMS (M+H) calc'd for C17H19N4O2: 311.1507, found: 311.1500.

#### Example XCVI

Preparation of 3-(2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using ammonia and the 2-thienyl analog of 15 as the starting materials. mp 214 °C; CIMS m+ calc'd for  $C_{15}H_{10}N_{4}O_{2}S$ : 310.0517, found: 310.0524.

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#### Example XCVII

Preparation of 3-(3-methyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the 3-methyl-2-thienyl analog of 15

as the starting materials. mp 270 °C; ESIMS (M+H) calc'd for  $C_{16}H_{13}N_{4}O_{2}S$ : 325.0759, found: 325.0744.

# Example XCVIII

Preparation of 3-(5-methyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the 5-methyl-2-thienyl analog of 15 as the starting materials. mp >280 °C; ESIMS (M+H) calc'd for  $C_{16}H_{13}N_{4}O_{2}S$ : 325.0759, found: 325.0761.

#### Example XCIX

Preparation of 3-(5-ethylcarboxyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using ammonia and the 5-ethylcarboxyl-2-thienyl analog of 15 as the starting materials. mp >280 °C; ESIMS (M+H) calc'd for  $C_{18}H_{15}N_{4}O_{4}S$ : 383.0813, found: 383.0788.

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#### Example C

Preparation of 3-(3-thienyl)-5(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the 3-thienyl analog of 15 as the starting materials. mp >280 °C; ESIMS (M+H) calc'd for  $C_{15H_{11}N_4O_2S}$ : 311.0603, found: 311.0594.

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#### Example CI

Preparation of 3-(5-chloro-3-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using ammonia and the 5-chloro-3-thienyl analog of 15 as the starting materials. mp >300 °C; ESIMS (M+H) calc'd for  $C_{15H_{10}N_{4}O_{2}SCl}$ : 345.0209, found: 345.0213.

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#### Example CII

Preparation of 3-(2,5-dimethyl-3-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the 2,5-dimethyl-3-thienyl analog of 15 as the starting materials. mp >280 °C; ESIMS (M+H) calc'd for C17H15N4O2S: 339.0916, found: 339.0905.

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#### Example CIII

Preparation of 3-(2-furanyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the 2-furanyl analog of 15 as the starting materials. mp 278 °C; ESIMS (M+H) calc'd for C15H11N4O3: 295.0831, found: 295.0838.

# Example CIV

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# Preparation of 3-(i-propyl)-5(N,N-dimethylaminocarbamoyl)aminoindeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the i-propyl analog of 15 as the starting materials. mp 231-233 °C; ESIMS (M+H) calc'd for  $C_{16}H_{20}N_{5}O_{2}$ : 314.1616, found: 314.1599.

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# Example CV

# Preparation of 3-(c-propyl)-5-

#### (N, N-dimethylaminocarbamoyl) aminoindeno

[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the c-propyl analog of 15 as the starting materials. mp XXX °C; ESIMS (M+H) calc'd for  $C_{16}H_{18}N_{5}O_{2}$ : 312.1460, found: 312.1487.

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# Example CVI

#### Preparation of 3-(c-hexyl)-5-

# (N, N-dimethylaminocarbamoyl) aminoindeno

#### [1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the c-hexyl analog of 15 as the starting materials. mp 229-231 °C; ESIMS (M+H) calc'd for  $C_{19}H_{24}N_{5}O_{2}$ : 354.1929, found: 354.1932.

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# Example CVII

# Preparation of 3-(2-thienyl)-5-

# (N, N-dimethylaminocarbamoyl) aminoindeno

# [1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 2-thienyl analog of 15 as the starting materials. mp 279 °C; ESIMS (M+H) calc'd for  $C_{17}H_{16}N_{5}O_{2}S$ : 354.1024, found: 354.1025.

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#### Example CVIII

Preparation of 3-(5-methoxy-2-thienyl)-5-

# 5 (N, N-dimethylaminocarbamoyl) aminoindeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 5-methoxy-2-thienyl analog of **15** as the starting materials. mp 280 °C; ESIMS (M+H) calc'd for C18H18N5O3S: 384.1130, found: 384.1119.

#### Example CIX

Preparation of 3-(5-methyl-2-thienyl)-5(N,N-dimethylaminocarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 5-methyl-2-thienyl analog of **15** as the starting materials. mp >280 °C; ESIMS (M+H) calc'd for C<sub>18</sub>H<sub>18</sub>N<sub>5</sub>O<sub>2</sub>S: 368.1181, found: 368.1171.

25 Example CX

Preparation of 3-(5-ethylcarboxyl-2-thienyl)-5(N,N-dimethylaminocarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 5-ethylcarboxyl-2-thienyl analog of **15** as the starting materials. mp 252 °C; ESIMS (M+H) calc'd for C<sub>20</sub>H<sub>20</sub>N<sub>5</sub>O<sub>4</sub>S: 426.1236, found: 426.1251.

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#### Example CXI

Preparation of 3-(3-thienyl)-5-

5 (N,N-dimethylaminocarbamoyl)aminoindeno [1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 3-thienyl analog of 15 as the starting materials. mp 202 °C; ESIMS (M+H) calc'd for C17H16N5O2S: 354.1025, found: 354.1031.

#### Example CXII

Preparation of 3-(1-methyl-3-pyrrolyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using ammonia and the 1-methyl-3-pyrrolyl analog of 15 as the starting materials. mp >300 °C; ESIMS (M+H) calc'd for C16H14N5O2: 308.1147, found: 308.1166.

# Example CXIII

Preparation of 3-(2,5-dimethyl-3-thienyl)-5(N,N-dimethylaminocarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 2,5-dimethyl-3-thienyl analog of 15 as the starting materials. mp 252 °C; ESIMS (M+H) calc'd for  $C_{19}H_{20}N_{5}O_{2}S$ : 382.1338, found: 382.1357.

## Example CXIV

Preparation of 3-(2-furanyl)-5
(N,N-dimethylaminocarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1,1-dimethylhydrazine and the 2-furanyl analog of 15 as the starting materials. mp 202 °C; ESIMS (M+H) calc'd for C17H16N5O3: 338.1253, found: 338.1248.

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#### Example CXV

# Preparation of 3-(i-propyl)-5(4-carbamoylpiperidinylacetamido)indeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using isonipecotamide and the i-propyl analog of 14 as the starting materials. mp 224-225 °C; ESIMS (M+H) calc'd for  $C_{21}H_{26}N_{5}O_{3}$ : 396.2035, found: 396.2036.

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#### Example CXVI

Preparation of 3-(c-hexyl)-5(4-carbamoylpiperidinylacetamido)indeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using isonipecotamide and the c-hexyl analog of 14 as the starting materials. mp 228-229 °C; ESIMS (M+H) calc'd for  $C_{24}H_{30}N_{5}O_{3}$ : 436.2348, found: 436.2345.

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#### Example CXVII

Preparation of 3-(ethyl)-5(4-aminomethylpiperidinylacetamido)indeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example XXIII using 4-(aminomethyl)piperidine and the ethyl analog of 14 as the starting materials. mp 174-176 °C; ESIMS (M+H) calc'd for C20H26N5O2: 368.2086, found: 368.2078.

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### Example CXVIII

# Preparation of 3-(i-propyl)-5(4-aminomethylpiperidinylacetamido)indeno

[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XXIII using 4-(aminomethyl)piperidine and the i-propyl analog of 14 as the starting materials. mp 218-220 °C; ESIMS (M+H) calc'd for C21H28N5O2: 382.2242, found: 382.2227.

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#### Example CXIX

Preparation of 3-(c-propyl)-5(4-aminomethylpiperidinylacetamido)indeno
[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XXIII using 4-(aminomethyl)piperidine and the c-propyl analog of 14 as the starting materials. mp 138-140 °C; ESIMS (M+H) calc'd for C21H26N5O2: 380.2086, found: 380.2079.

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#### Example CXX

Preparation of 3-(c-hexyl)-5(4-aminomethylpiperidinylacetamido)indeno
[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example XXIII using 4-(aminomethyl)piperidine and the c-hexyl analog of 14 as the starting materials. mp 196-198 °C; ESIMS (M+H) calc'd for C24H32N5O2: 422.2555, found: 422.2540.

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#### Example CXXI

Preparation of 3-(i-propyl)-5(4-methylpiperazinylcarbamoyl)aminoindeno

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#### [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1-amino-4-methylpiperazine and the i-propyl analog of 15 as the starting materials. mp 231-233 °C; ESIMS (M+H) calc'd for C19H25N6O2: 369.2038, found: 369.2039.

#### Example CXXII

Preparation of 3-(5-ethylcarboxyl-2-thienyl)-5(4-methylpiperazinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1-amino-4-methylpiperazine and the 5-ethylcarboxyl-2-thienyl analog of 15 as the starting materials. mp 249 °C; ESIMS (M+H) calc'd for C23H25N6O4S: 481.1657, found: 481.1642.

#### Example CXXIII

Preparation of 3-(5-carboxyl-2-thienyl)-5(4-methylpiperazinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

A solution of CXXII (30 mg, 0.05 mmol) in 3:1 THF/water (2 mL) was treated with LiOH (23 mg, 0.5 mmol) and the reaction was stirred at 25 °C for 12 h and then heated to reflux for 1 h. The organic solvent was removed at reduced pressure and the residue was partioned between EtOAc (5 mL) and water (5 mL). The organic layer was separated and the aqueous phase was adjusted to pH = 2 with 1 M HCl and reextracted with EtOAc (5 mL). The combined organic layers were dried (Na2SO4), filtered and concentrated at reduced pressure to give a crude residue. Purification by reverse phase HPLC gave the product as a yellow solid (10.4 mg,

5 46%). mp 270 °C; ESIMS (M+H) calc'd for C<sub>21</sub>H<sub>21</sub>N<sub>6</sub>O<sub>4</sub>S: 453.1344, found: 453.1353.

#### Example CXXIV

Preparation of 3-(2,5-dimethyl-3-thienyl)-5
(4-methylpiperazinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 1-amino-4-methylpiperazine and the 2,5-dimethyl-3-thienyl analog of 15 as the starting materials. mp 250 °C; ESIMS (M+H) calc'd for C22H25N6O2S: 437.1760, found: 437.1771.

#### Example CXXV

20 Preparation of 3-(i-propyl)-5
(morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example
LXXXVI using 4-aminomorpholine and the i-propyl analog of 15
as the starting materials. mp 256-258 °C; ESIMS (M-H) calc'd
for C18H20N5O3: 354.1566, found: 354.1543.

#### Example CXXVI

Preparation of 3-(N-methylcarbamoyl-4-piperidinyl)-5
(morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 4-aminomorpholine and the N-methylcarbamoyl-4-piperidinyl analog of 15 as the starting materials. mp 216-218 °C; ESIMS (M+H) calc'd for C22H27N6O5: 455.2042, found: 455.2036.

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#### Example CXXVII

# Preparation of 3-(5-methyl-2-thienyl)-5 (morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 4-aminomorpholine and the 5-methyl-2-thienyl analog of 15 as the starting materials. mp 261 °C; ESIMS (M+H) calc'd for  $C_{20}H_{20}N_{5}O_{3}S$ : 410.1287, found: 410.1308.

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#### Example CXXVIII

# Preparation of 3-(5-chloro-3-thienyl)-5(morpholinylcarbamoyl)aminoindeno [1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 4-aminomorpholine and the 5-chloro-3-thienyl analog of 15 as the starting materials. mp 259 °C; ESIMS (M+H) calc'd for  $C_{19}H_{17}N_{5}O_{3}SCl$ : 430.0741, found: 430.0757.

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#### Example CXXIX

Preparation of 3-(2,5-dimethyl-3-thienyl)-5-(morpholinylcarbamoyl)aminoindeno [1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example LXXXVI using 4-aminomorpholine and the 2,5-dimethyl-3-thienyl analog of 15 as the starting materials. mp >280 °C; ESIMS (M+H) calc'd for  $C_{21}H_{22}N_5O_3S$ : 424.1443, found: 424.1431.

#### Example CXXX

Preparation of 3-(5-ethylcarboxyl-2-thienyl)-5-

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# (morpholinylcarbamoyl) aminoindeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI using 4-aminomorpholine and the 5-ethylcarboxyl-2-thienyl analog of 15 as the starting materials. mp 258 °C; ESIMS (M+H) calc'd for C22H22N5O5S: 468.1341, found: 468.1331.

#### Example CXXXI

Preparation of 3-(5-carboxyl-2-thienyl)-5
(morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example 20 LXXXVI (HYDROLYSIS OF PREVIOUS ESTER). mp 273 °C; ESIMS (M+H) calc'd for C20H18N5O5S: 440.1028, found: 440.1026.

#### Example CXXXII

Preparation of 3-(5-benzylcarboxamido-2-thienyl)-5
(morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

A solution of benzylamine (0.01 mL, 0.09 mmol) in DMF (1 mL) was treated with acid CXXXI (40 mg, 0.09 mmol) and stirred at 25 °C. The reaction was treated with TBTU (29 mg, 0.09 mmol) and stirred at 25 °C for 30 min. Triethylamine (0.01 mL, 0.09 mmol) was added and the reaction stirred at 25 °C for 12 h. After adding more TBTU (15 mg, 0.045 mmol) and triethylamine (0.01 mL, 0.09 mmol) the reaction was stirred at 25 °C for an additional 4 h. The reaction was diluted with EtOAc (10 mL) and water (10 mL) and the aqueous layer was extracted with EtOAc (5 x 10 mL). The combined organic layers were dried (Na2SO4), filtered, and the solvent removed at reduced pressure. Purification of the

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residue using reverse phase HPLC gave the product as a yellow solid (21 mg, 42%). mp 275 °C; ESIMS (M+H) calc'd for C27H25N5O4S: 529.1659, found: 529.1682.

#### Example CXXXIII

Preparation of 3-(5-(4-methylpiperazinyl)

carboxamido-2-thienyl)-5-

(morpholinylcarbamoyl) aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 1-amino-4-methylpiperazine as the starting material. mp 190 °C; ESIMS (M+H) calc'd for C25H29N8O4S: 537.2032, found: 537.2055.

20 Example CXXXIV

Preparation of 3-(5-(2-(1-methylpyrrolidinyl)ethyl)

carboxamido-2-thienyl)-5-

(morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example CXXXII using 2-(2-aminoethyl)-1-methylpyrrolidine as the starting material. mp 235 °C; ESIMS (M+H) calc'd for  $C_{27}H_{32}N_{7}O_{4}S$ : 550.2236, found: 550.2229.

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# Example CXXXV

Preparation of 3-(5-(N,N-dimethylamino)

carboxamido-2-thienyl)-5-

(morpholinylcarbamoyl) aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 1,1-dimethylhydrazine as the starting material.

5 mp 201 °C; ESIMS (M+H) calc'd for C<sub>22</sub>H<sub>24</sub>N<sub>7</sub>O<sub>4</sub>S: 482.1610, found: 482.1588.

#### Example CXXXVI

Preparation of 3-(5-(2-(N,N-dimethylamino)ethyl)

10 carboxamido-2-thienyl)-5-

(morpholinylcarbamoyl) aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example

CXXXII using N,N-dimethylethylenediamine as the starting material. mp 190 °C; ESIMS (M+H) calc'd for C24H28N7O4S: 510.1923, found: 510.1922.

# Example CXXXVII

Preparation of 3-(5-(2-(pyrrolidinyl)ethyl)

carboxamido-2-thienyl)-5-

(morpholinylcarbamoyl) aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 1-(2-aminoethyl)pyrrolidine as the starting material. mp 224 °C; ESIMS (M+H) calc'd for C26H30N7O4S: 536.2080, found: 536.2091.

30 Example CXXXVIII

Preparation of 3-(5-(2-(morpholinyl)ethyl)

carboxamido-2-thienyl)-5-

(morpholinylcarbamoyl) aminoindeno

[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for example CXXXII using 4-(2-aminoethyl)morpholine as the starting

5 material. mp 241 °C; ESIMS (M+H) calc'd for C26H30N7O5S: 552.2029, found: 552.2043.

#### Example CXXXIX

Preparation of 3-(5-morpholinylcarboxamido-2-thienyl)-5
(morpholinylcarbamoyl)aminoindeno

[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 4-aminomorpholine as the starting material. mp 271 °C; ESIMS (M+H) calc'd for C24H26N7O5S: 524.1716, found: 524.1719.

#### Example CXL

Preparation of 3-(5-(3-(pyrrolidonyl)propyl)

carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 1-(3-aminopropyl)-2-pyrrolidinone as the starting material. mp 260 °C; ESIMS (M+H) calc'd for C27H30N7O5S: 564.2029, found: 564.2031.

#### Example CXLI

Preparation of 3-(5-(2-(3-pyridyl)ethyl)

carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 3-(2-aminoethyl)pyridine as the starting material. mp 203 °C; ESIMS (M+H) calc'd for C27H26N7O4S: 544.1766, found: 544.1760.

#### Example CXLII

Preparation of 3-(5-(3-(imidazolyl)propyl)

5 carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno [1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 1-(3-aminopropyl)imidazole as the starting material. mp 263 °C; ESIMS (M+H) calc'd for C26H27N8O4S: 547.1875, found: 547.1872.

#### Example CXLIII

Preparation of 3-(5-(2-(2-pyridyl)ethyl)

carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 2-(2-aminoethyl)pyridine as the starting
material. mp >280 °C; ESIMS (M+H) calc'd for C27H26N7O4S:
544.1767, found: 544.1778.

#### Example CXLIV

Preparation of 3-(5-((2-pyridyl)methyl)

carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 2-(aminomethyl)pyridine as the starting

material. mp 239 °C; ESIMS (M+H) calc'd for C26H24N7O4S:

530.1610, found: 530.1603.

#### Example CXLV

Preparation of 3-(5-(2-(piperidinyl)ethyl)

carboxamido-2-thienyl)-5(morpholinylcarbamoyl)aminoindeno
[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example CXXXII using 1-(2-aminoethyl)piperidine as the starting material. mp 228 °C; ESIMS (M+H) calc'd for C27H32N7O4S: 550.2236, found: 550.2236.

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#### Example CXLVI

Preparation of 3-(4-(trifluoromethyl)phenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for example LXXXVI employing 1-(4-(trifluoromethyl)phenyl)-4,4,4-trifluoro-1,3-butanedione as the starting material. mp >300 °C; ESI -MS m/e calc'd for C19H11N3O2: 370.0804, found: 370.0809.

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#### Example CXLVII

Preparation of 3-(4-(4-t-butoxycarbonyl-1-piperazinyl)phenyl)-5-(((4-

morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one

5 Step 1. Synthesis of 30.

A solution of 4-piperazinoacetophenone (24.8 g, 121 mmol) and di-tert-butyl dicarbonate (27.8 g, 128 mmol) in 480 mL of tetrahydrofuran was refluxed for 16 h. After cooling to room temperature the solution was concentrated under vacuum. The resulting solids were washed with hexane and dried under vacuum to afford 29.4 g (80%) of the product as an off-white solid. NMR (CDCl<sub>3</sub>) δ 7.89 (d, 2 H, J = 9 Hz), 6.87 (d, 2 H, J = 9 Hz), 3.59 (m, 4 H), 3.33 (m, 4 H), 15 2.53 (s, 3 H), 1.49 (s, 9 H).

Step 2. Synthesis of 31 from 30.

To a solution of 30 (11.35 g, 37 mmol) and ethyl trifluoroacetate (5.40 mL, 45 mmol) in 50 mL of 20 tetrahydrofuran at 25 °C was added dropwise over 15 min. 21% sodium ethoxide in ethanol (16.8 mL, 45 mmol), and the resulting solution then was stirred at 25 °C for 14 h. The reaction mixyure was diluted with water, adjusted to pH 5 25 with conc. hydrochloric acid, and extracted with ethyl acetate. The combined extracts was washed with water and brine, dried over anhydrous sodium sulfate, filtered, and concentrated under vacuum. The resulting solid was washed with diethyl ether and dried to furnish 12.1 g (81%) of the product as an orange solid. NMR (CDCl<sub>3</sub>)  $\delta$  7.87 (d, 2 H, J = 30 9 Hz), 6.87 (d, 2 H, J = 9 Hz), 6.45 (s, 1 H), 3.60 (m, 4H), 3.41 (m, 4 H), 1.48 (s, 9 H).

Step 3. Synthesis of CXLVII from 31.

Prepared in a similar fashion as described for examples LXXVI and XLII employing 31 and 4-aminomorpholine as starting materials. mp 242 °C; ESI-MS m/e calc'd for C30H36N7O5574.2778, found: 574.2762.

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#### Example CXLVIII

Preparation of 3-(4-(1-piperazinyl)phenyl)-5-(((4-morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one

A solution of CXLVII (0.58 g, 1.0 mmol) in 20 mL of trifluoroacetic acid was stirred at 25 °C for 2 h. The reaction mixture was concentrated under vacuum, and the residue was recrystallized from ethanol to provide 0.53 g (89%) of the yellow product as its TFA-salt. mp 263 °C; ESI-MS m/e calc'd for C25H28N7O3: 474.2254, found: 474.2280.

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#### Example CXLIX

Preparation of 3-(4-(1-piperazinyl)phenyl)-5-((aminocarbonyl)amino)indeno[1,2-c]pyrazol-4-one

Prepared in a similar fashion as described for examples XLII and CXLVIII employing 2-(4-(4-t-butoxycarbonyl-1-piperazinyl)benzoyl)-4-amino-1,3-indanedione obtained in example CXLVII and ammonia as the starting materials. mp 257 °C; ESI-MS m/e calc'd for C21H21N6O2: 389.1726, found: 389.1724.

#### Example CL

Preparation of 3-(4-(1-piperazinyl)phenyl)-5-((hydrazinocarbonyl)amino)indeno[1,2-c]pyrazol-4-one

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Prepared in a similar fashion as described for examples XLII and CXLVIII employing 2-(4-(4-t-butoxycarbonyl-1-piperazinyl)benzoyl)-4-amino-1,3-indanedione obtained in example CXLVII and hydrazine as the starting materials. mp 257 °C; ESI-MS m/e calc'd for C21H22N7O2: 404.1835, found: 404.1834.

5 Example CLI

Preparation of 3-(4-(1-piperazinyl)phenyl)-5-((dimethylamino)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared employing 2-(4-(4-t-butoxycarbonyl-1
piperazinyl)benzoyl)-4-amino-1,3-indanedione obtained in example CXLVII as the starting material. Chloroacetylation and treatment with dimethylamine in a similar fashion as described for examples II and XXIII, followed by treatment with hydrazine and removal of the t-butoxycarbonyl group in a similar fashion as described for examples I and CXLVIII, afforded the example compound. mp 243 °C; ESI-MS m/e calc'd for C24H27N6O2: 431.2196, found: 431.2198.

#### Example CLII

20 Preparation of 3-(4-(1-piperazinyl)phenyl)-5-((4-morpholinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared employing 2-(4-(4-t-butoxycarbonyl-1-piperazinyl)benzoyl)-4-amino-1,3-indanedione obtained in example CXLVII as the starting material. Chloroacetylation and treatment with morpholine in a similar fashion as described for examples II and XXIII, followed by treatment with hydrazine and removal of the t-butoxycarbonyl group in a similar fashion as described for examples I and CXLVIII, afforded the example compound. mp 259 °C; ESI-MS m/e calc'd for C26H29N6O3: 473.2301, found: 473.2302.

#### Example CLIII

Preparation of 3-(4-(1-piperazinyl)phenyl)-5-((4-methyl-1-piperazinyl)acetamido)indeno[1,2-c]pyrazol-4-one

Prepared employing 2-(4-(4-t-butoxycarbonyl-1-piperazinyl)benzoyl)-4-amino-1,3-indanedione obtained in example CXLVII as the starting material. Chloroacetylation

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and treatment with 1-methylpiperazine in a similar fashion as described for examples II and XXIII, followed by treatment with hydrazine and removal of the t-butoxycarbonyl group in a similar fashion as described for examples I and CXLVIII, afforded the example compound. ESI-MS m/e calc'd for C27H32N7O2: 486.2618, found: 486.2608.

#### Example CLIV

Preparation of 3-(4-(1-piperazinyl)phenyl)-5-((4-aminomethyl-1-piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-

15 one

Prepared employing 2-(4-(4-t-butoxycarbonyl-1-piperazinyl)benzoyl)-4-amino-1,3-indanedione obtained in example CXLVII as the starting material. Chloroacetylation and treatment with 4-(aminomethyl)piperidine in a similar fashion as described for examples II and XXIII, followed by treatment with hydrazine and removal of the t-butoxycarbonyl group in a similar fashion as described for examples I and CXLVIII, afforded the example compound. mp 239 °C; ESI-MS m/e calc'd for C28H34N7O2: 500.2774, found: 500.2772.

### Example CLV

Preparation of 3-(4-(4-methyl-1-piperazinyl)phenyl)-5-(((4-morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one

EX. CXLVIII

To a solution of CXLVIII (0.17 g, 0.29 mmol) in 10 mL of methanol and 2 mL of water at 25 °C was added sequentially 37% aqueous formaldehyde (0.45 g, 5.8 mmol),

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sodium cyanoborohydride (0.18 q, 2.9 mmol), and 4 drops of acetic acid. The resulting solution was stirred at 25 °C for 16 h. The mixture was diluted with water. It then was made acidic (~pH 1) with conc. hydrochloric acid and stirred for 10 min. The solution next was made basic (~pH 13) with 50% aqueous sodium hydroxide and finally adjusted to pH 10 with 10 1 N hydrochloric acid. The mixture was extracted with 4:1 chloroform/isopropanol. The combined extracts were washed with water and brine, dried over anhydrous sodium sulfate, and filtered. To the filtrate was added excess trifluoroacetic acid, and the solution was concentrated 15 under vacuum. The residue was recrystallized from isopropanol to furnish 0.16 g (92%) of the yellow product as its TFA-salt. mp 245 °C; ESI-MS m/e calc'd for C26H30N7O3: 488.2410, found: 488.2420.

20

#### Example CLVI

Preparation of 3-(4-(4-ethyl-1-piperazinyl)phenyl)-5-(((4-morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one

25 Prepared in a similar fashion as described for example CLV employing CXLVIII and acetaldehyde as the starting materials. mp 245 °C; ESI-MS m/e calc'd for C27H32N7O3: 502.2567, found: 502.2555.

30

# Example CLVII

Preparation of 3-(4-(4-isopropyl-1-piperazinyl)phenyl)-5(((4-morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4one

Prepared in a similar fashion as described for example CLV employing CXLVIII and acetone as the starting materials. mp 253 °C; ESI-MS m/e calc'd for C28H34N7O3: 516.2723, found: 516.2726.

5 <u>UTILITY</u>

Inhibition of Kinase/Cyclin Complex Enzymatic Activity Several of the compounds disclosed in this invention were assayed for their inhibitory activity against cdk4/D1 and cdk2/E kinase complexes. Briefly, the in vitro assays employ cell lysates from insect cells expressing either of 10 the kinases and subsequently their corresponding regulatory units. The cdk2/cyclinE is purified from insect cells expressing His-tagged cdk2 and cyclin E. The cdk/cyclin lysate is combined in a microtitre-type plate along with a kinase compatible buffer,  $^{32}P$ -labeled ATP at a concentration 15 of 50 mM, a GST-Rb fusion protein and the test compound at varying concentrations. The kinase reaction is allowed to proceeded with the radiolabled ATP, then effectively stopped by the addition of a large excess of EDTA and unlabeled ATP. The GST-Rb labeled protein is sequestered on a GSH-Sepharose 20 bead suspension, washed, resuspended in scintillant, and the 32p activity detected in a scintillation counter. The compound concentration which inhibits 50% of the kinase activity was calculated for each compound. A compound was considered active if its IC50 was found to be less than 1 25 μΜ.

Inhibition of HCT 116 Cancer Cell Proliferation To test the cellular activity of several compounds disclosed in this invention, we examined the effect of these 30 compounds on cultured HCT116 cells and determined their effect on cell-cycle progression by the colorimetric cytotoxcity test using sulforhodamine B (Skehan et al. J. Natl. Cancer Inst. 82:1107-12, 1990). Briefly, HCT116 cells are cultured in the presence of test compounds at increasing 35 concentrations. At selected time points, groups of cells are fixed with trichloroacetic acid and stained with sulforhodamine B (SRB). Unbound dye was removed by washing and protein-bound dye was extracted for determination of optical density. A compound was considered active if its 40

IC50 was found to be less than 10  $\mu$ M.

Table 1

Example	$R^1$	R <sup>2</sup>	mass	mp
#			(M <sup>+</sup> H)	(°C)
I	Methyl	4-MeOC6H4	334	268
ΙΙ	ClCH <sub>2</sub>	$4-MeOC_6H_4$	382	274
III	cyclopropyl	4-MeOC <sub>6</sub> H <sub>4</sub>	360	289
IV	isopropyl	4-MeOC6H4	362	288
V	ethyl	4-MeOC6H4	348	287
VI	cyclopentyl	4-MeOC6H4	388	267
VII	cyclobutyl	4-MeOC <sub>6</sub> H <sub>4</sub>	374	297
VIII	benzyl	4-MeOC <sub>6</sub> H <sub>4</sub>	410	280
IX	n-propyl	4-MeOC6H4	362	282
х	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4	444	238
XI	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4	440	>300
XII	4-MeOC6H4CH2	4-MeOC6H4	440	280
XIII	$3,4-diMeOC_6H_4CH_2$	4-MeOC6H4	470	>300
XIV	2,5-diMeOC6H4CH2	4-MeOC6H4	470	226
xv	Methyl	2-MeOC <sub>6</sub> H <sub>4</sub>	334	276
XVI	Methyl	3,4-diMeOC6H4	364	>300
XVII	3,4-(OCH <sub>2</sub> O)C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4	454	297
XVIII	$3-$ thiophenylCH $_2$	4-MeOC6H4	416	293
XIX	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>	440	255
XX	3,4-diClOC6H4CH2	4-MeOC6H4	479	299
XXI	2,4-diClOC6H4CH2	4-MeOC6H4	479	286
XXII	2-C1C6H4CH2	4-MeOC6H4	444	300

XXIII	H <sub>2</sub> NCH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>	349	>300
XXIV	HOCH2CH2NHCH2	4-MeOC6H4	393	243
XXV	Me <sub>2</sub> NCH <sub>2</sub>	4-MeOC6H4	377	279
XXVI	piperazinylCH2	4-MeOC6H4	418	277
IIVXX	4-Me-piperazinylCH2	4-MeOC6H4	432	>300
XXVIII	4-HOCH <sub>2</sub> CH <sub>2</sub> -	4-MeOC6H4	462	>300
	piperazinylCH2			
XXIX	piperidinylCH2	4-MeOC <sub>6</sub> H <sub>4</sub>	417	291
XXX	4-NH <sub>2</sub> CH <sub>2</sub> -	4-MeOC6H4	446	>300
	piperidinylCH2			
XXXI	CH3CH2NHCH2	4-MeOC6H4	377	250
XXXII	thiomorpholinyl $\mathtt{CH}_2$	4-MeOC6H4	435	298
XXXIII	$morpholinylCH_2$	4-MeOC <sub>6</sub> H <sub>4</sub>	419	295
XXXIV	pyrrolidinylCH2	4-MeOC <sub>6</sub> H <sub>4</sub>	403	279
XXXV	4-pyridylCH <sub>2</sub> NHCH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>	440	>300
XXXVI	4-CH3CONHC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>	467	268
IIVXXX	$4-CH_3OCONHC_6H_4CH_2$	4-MeOC6H4	483	257
XXXVIII	$4-NH_2CH_2CONHC_6H_4CH_2$	4-MeOC6H4	482	228
XXXXX	$4-\text{Me}_2\text{NCH}_2\text{CONHC}_6\text{H}_4\text{CH}_2$	4-MeOC6H4	510	>300
XL	4-N3C6H4CH2	4-MeOC6H4	451	>300
XLI	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4	425	283
XLII	C <sub>6</sub> H <sub>5</sub> NH	4-MeOC6H4	411	>300
XLIII	CH3CH2CH2NH	4-MeOC <sub>6</sub> H <sub>4</sub>	377	252
XLIV	$4-NH_2C_6H_4CH_2NH$	4-MeOC6H4	440	>300
XLV	4-pyridylCH <sub>2</sub> NH	4-MeOC6H4	426	>300
XLVI	Methyl	4-HOC6H4	320	>300
XLVII	Н	4-MeOC6H4	320	280
XLVIII	Methyl	3-pyridyl	305	>300
XLIX	Methyl	4-pyridyl	305	>300
L	Н	4-pyridyl	291	>300
LI	Methyl	C6H5	305	>300

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LII	Methyl	4-MeSC <sub>6</sub> H <sub>4</sub>	351	283
LIII	Methyl	4-MeSO2C6H4	383	>300
LVI	Methyl	4-Me2NC6H4	348 .	>300
LV	$morpholinylCH_2$	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>	432	>300
LVI	Me <sub>2</sub> NCH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>	390	>300
LVII	Methyl	4-(piperdinyl)C <sub>6</sub> H <sub>4</sub>	388	291
LVIII	Methyl	4 -	389	>300
		(morpholinyl)C <sub>6</sub> H <sub>4</sub>		
LIX	Methyl	4-CH3CH2OC6H4	349	288
LX	Methyl	4-CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CGH <sub>4</sub>	361	259
LXI	Methyl	4-CH3CH2C6H4	332	294
LXII	Methyl	4-CH3CH2CH2C6H4	347	269
LXIII	$NH_2$	4-MeOC6H4	335	>300
LXIV	Me2NNH	4-MeOC6H4	378	>300
LXV	MeNH	4-MeOC <sub>6</sub> H <sub>4</sub>	349	>300
LXVI	morpholinylNH	4-MeOC6H4	420	>300
LXVII	cis-1,2-	4-MeOC6H4	432	>300
	diaminocyclohexanyl			
LXVIII	4 -	4-MeOC6H4	433	>300
	methylpiperazinylNH			
LXVIX	4 -	4-MeOC <sub>6</sub> H <sub>4</sub>	489	>300
	uridomethylpiperadin			
LXX	ylCH <sub>2</sub> 4-(2-	4-MeOC6H4	495	>300
LIM	pyridyl)piperazinyl	4-146069114	175	2300
	CH,			
LXXI	4 -	4-MeOC <sub>6</sub> H <sub>4</sub>	461	>300
	(aminoethyl)piperazi			
	nyl CH <sub>2</sub>			
LXXII	4-amidopiperidinylCH <sub>2</sub>	4-MeOC6H4	460	>300
LXXIII	4 -	4-MeOC6H4	433	>300
	hydroxypiperidinylCH <sub>2</sub>			

LXXIV	4 -	4-MeOC6H4	447	>300
DAIN I	hydroxymethylpiperid	- 1100 - 0-1- <del>4</del>		
	inylCH,			
LXXV	4-amidopiperazinylCH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>	493	>300
LXXVI	4 -	4-MeOC <sub>6</sub> H <sub>4</sub>	492	>300
	dimethylaminopiperad inylCH2			
LXXVII	4-aminopiperadinylCH <sub>2</sub>	4-MeOC6H4	464	>300
LXXVIII	4-Me-piperazinylCH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>	445	>300
LXXIX	4-NH <sub>2</sub> CH <sub>2</sub> -	4-Me2NC6H4	459	NA
	piperidinylCH2			
LXXX	4-OH-piperidinylCH2	4-Me2NC6H4	446	267
LXXXI	morpholinylCH <sub>2</sub>	4 -	474	258
		(morpholinyl)C6H4		
LXXXII	$4-{ t Me-piperazinylCH}_2$	4 -	487	258
		(morpholinyl)C <sub>6</sub> H <sub>4</sub>		
LXXXIII	$4-{ m OH-piperidinylCH_2}$	4 -	488	245
		(morpholinyl)C6H4		
LXXXIV	4-NH <sub>2</sub> CH <sub>2</sub> -	4 -	501	240
	piperidinylCH <sub>2</sub>	(morpholinyl)C6H4		
LXXXV	4-Me-piperazinylNH	4-Me2NC6H4	446	>300
		i-propyl	270	>250
LXXXVI	Methyl Methyl	c-propyl	268	220
LXXXVIII	<del>-</del>	t-butyl	284	>250
LXXXIX	Methyl	2-thienyl	310	269
ХС	Methyl	3-Me-2-thienyl	324	275
XCI	NH <sub>2</sub>	Ethyl	257	>250
XCII	NH <sub>2</sub>	n-propyl	271	187
XCIII	NH <sub>2</sub>	i-propyl	271	>250
XCIV	NH <sub>2</sub>	c-propyl	267	252
			(M-H)	
XCV	NH <sub>2</sub>	c-hexyl	311	178
XCVI	NH <sub>2</sub>	2-thienyl	310	214
			(M+)	

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XCVII	NT.			
	NH <sub>2</sub>	3-Me-2-thienyl	325	270
XCVIII	NH <sub>2</sub>	5-Me-2-thienyl	325	>280
XCIX	NH <sub>2</sub>	5-CO <sub>2</sub> Et-2-thienyl	383.	>280
С	NH <sub>2</sub>	3-thienyl	31í	>280
CI	NH <sub>2</sub>	5-Cl-3-thienyl	345	>300
CII	NH <sub>2</sub>	2,5-diMe-3-thienyl	339	>280
CIII	NH <sub>2</sub>	2-furanyl	295	278
CIV	Me <sub>2</sub> NNH	i-propyl	314	231
CV	Me <sub>2</sub> NNH	c-propyl	312	
CVI	Me <sub>2</sub> NNH	c-hexyl	354	229
CVII	Me <sub>2</sub> NNH	2-thienyl	354	279
CVIII	Me <sub>2</sub> NNH	5-MeO-2-thienyl	384	280
CIX	$Me_2NNH$	5-Me-2-thienyl	368	>280
CX	Me2NNH	5-CO <sub>2</sub> Et-2-thienyl	426	252
CXI	Me <sub>2</sub> NNH	3-thienyl	354	202
CXII	NH <sub>2</sub>	1-methyl-3-	308	>300
		pyrrolyl		
CXIII	Me2NNH	2,5-diMe-3-thienyl	382	252
CXIV	Me <sub>2</sub> NNH	2-furanyl	338	202
CXV	4-NH2CO-	i-propyl	396	224
	$piperidinylCH_2$			
CXVI	4-NH <sub>2</sub> CO-	c-hexyl	436	228
	piperidinylCH2			
CXVII	4-NH <sub>2</sub> CH <sub>2</sub> -	ethyl	368	174
	piperidinylCH2			
CXVIII	4-NH2CH2-	i-propyl	382	218
	piperidinylCH2			
CXVIX	4-NH2CH2-	c-propyl	380	138
	$piperidinylCH_2$			
CXX	4-NH2CH2-	c-hexyl	422	196
	piperidinylCH2			
CXXI	4-CH <sub>3</sub> -piperazinylNH	i-propyl	369	231
CXXII	4-CH3-piperazinylNH	5-CO <sub>2</sub> Et-2-thienyl	481	249
CXXIII	4-CH3-piperazinylNH	5-CO <sub>2</sub> H-2-thienyl	453	270
		_		

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CXXIV	CXXIV 4-CH3-piperazinylNH 2,5-diMe-3-thie		437	250
CXXV	morpholinylNH	i-propyl	354	256
			(M-H)	
CXXVI	morpholinylNH	4-CO <sub>2</sub> Me-	455	216
		piperidinyl		
CXXVII	morpholinylNH	5-Me-2-thienyl	410	261
CXXVIII	morpholinylNH	5-Cl-3-thienyl	430	259
CXXIX	morpholinylNH	2,5-diMe-3-thienyl	424	>280
CXXX	morpholinylNH	5-CO <sub>2</sub> Et-2-thienyl	468	258
CXXXI	morpholinylNH	5-CO <sub>2</sub> H-2-thienyl	440	273
CXXXII	morpholinylNH	5-CONHBn-2-thienyl	529	275
CXXXIII	morpholinylNH	5-CONH (4-Me-	537	190
		<pre>piperazinyl)-2-</pre>		
		thienyl		
CXXXIV	morpholinylNH	5-CONHCH2CH2(1-Me-	550	235
		2-pyrrolidinyl)-2-		
		thienyl		
CXXXV	morpholinylNH	5-CONHNMe2-2-	482	201
		thienyl		
CXXXVI	morpholinylNH	5-CONHCH2CH2NMe2-	510	190
		2-thienyl		
CXXXVII	morpholinylNH	5-CONHCH2CH2(1-	536	224
		pyrrolidinyl)-2-		
		thienyl		
CXXXVIII	morpholinylNH	5-CONHCH2CH2(1-	552	241
		morpholinyl)-2-		
		thienyl		
CXXXIX	morpholinylNH	5-CONHmorpholinyl-	524	271
		2-thienyl		
CXL	morpholinylNH	5-CONHCH2CH2CH2(1-	564	260
		pyrrolidonyl)-2-		
		thienyl		
CXLI	morpholinylNH	5-CONHCH2CH2(3-	544	203
		pyridyl)-2-thienyl		

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CXLII	morpholinylNH	5-CONHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> (1- imidazolyl)-2- thienyl	547	263
CXLIII	morpholinylNH	5-CONHCH <sub>2</sub> CH <sub>2</sub> (2-	544,	>280
CXLIV	morpholinylNH	pyridyl) -2-thienyl 5-CONHCH <sub>2</sub> (3-	530	239
CXLV	morpholinylNH	<pre>pyridyl)-2-thienyl 5-CONHCH2CH2(1- piperidinyl)-2-</pre>	550	228
CXLVI	Methyl	thienyl 4-CF3C <sub>6</sub> H <sub>4</sub>	370 (M-H)	>300
CXLVII	morpholinylNH	4-(4-Boc- piperazinyl)C <sub>6</sub> H <sub>4</sub>	574	242
CXLVIII	morpholinylNH	4- (piperazinyl)C6H4	474	263
CXLIX	NH <sub>2</sub>	4- (piperazinyl)C6H4	389	257
CL	NH <sub>2</sub> NH	4- (piperazinyl)C6H4	404	257
CLI	Me <sub>2</sub> NCH <sub>2</sub>	4- (piperazinyl)C <sub>6</sub> H <sub>4</sub>	431	243
CLII	$morpholinylCH_2$	4- (piperazinyl)C <sub>6</sub> H <sub>4</sub>	473	259
CLIII	4-Me-piperazinylCH <sub>2</sub>	4- (piperazinyl)C <sub>6</sub> H <sub>4</sub>	486	NA
CLIA	4-NH <sub>2</sub> CH <sub>2</sub> -	4- (piperazinyl)C <sub>6</sub> H <sub>4</sub>	500	239
	$piperidinylCH_2$	(F-F0-0-1-11) - / 001-1		
CLV	morpholinylNH	4-(4-Me- piperazinyl)C <sub>6</sub> H <sub>4</sub>	488	245
CLVI	morpholinylNH	4-(4-Et- piperazinyl)C <sub>6</sub> H <sub>4</sub>	502	245
CLVII	morpholinylNH	4-(4-i-Pr- piperazinyl)C6H4	516	253

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# Table 2

10	Example Number	R <sup>1</sup>	R <sup>2</sup>
	100	2-pyridylmethyl	4-MeOC <sub>6</sub> H <sub>4</sub>
	101	2-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub>
	102	2-pyridylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
15	103	2-pyridylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	104	2-pyridylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	105	2-pyridylmethyl	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	106	2-pyridylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	107	2-pyridylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
20	108	2-pyridylmethyl	4-pyridyl
	109	2-pyridylmethyl	3-pyridyl
	110	2-pyridylmethyl	2-pyridyl
	111	2-pyridylmethyl	2-thiazolyl
	112	2-pyridylmethyl	2-pyrazolyl
- 25	113	2-pyridylmethyl	5-isoquinolyl
	114	2-pyridylmethyl	3,4-
			$methylenedioxyC_6H_3$
	115	2-pyridylmethyl	3,4-
			ethylenedioxy $C_6H_3$
30	116	2-pyridylmethyl	2-imidazolyl
	117	2-pyridylmethyl	2-oxazolyl
	118	2-pyridylmethyl	4-isoxazolyl
r	119	2-pyridylmethyl	4-HOC6H4
•	120	2-pyridylmethyl	3-HOC6H4
35	121	2-pyridylmethyl	3,4-diHOC6H4

5	122	2-pyridylmethyl	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	123	2-pyridylmethyl	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	124	3-pyridylmethyl	4-MeOC <sub>6</sub> H <sub>4</sub>
	125	3-pyridylmethyl	3-MeOC6H4
	126	3-pyridylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	127	3-pyridylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	128	3-pyridylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	129	3-pyridylmethyl	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	130	3-pyridylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	131	3-pyridylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	132	3-pyridylmethyl	4-pyridyl
	133	3-pyridylmethyl	3-pyridyl
	134	3-pyridylmethyl	2-pyridyl
	135	3-pyridylmethyl	2-thiazolyl
	136	3-pyridylmethyl	2-pyrazolyl
20	137	<pre>3-pyridylmethyl</pre>	5-isoquinolyl
	138	3-pyridylmethyl	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	139	3-pyridylmethyl	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
25	140	3-pyridylmethyl	2-imidazolyl
	141	3-pyridylmethyl	2-oxazolyl
	142	3-pyridylmethyl	4-isoxazolyl
	143	3-pyridylmethyl	4-HOC6H4
	144	3-pyridylmethyl	3-HOC6H4
30	145	3-pyridylmethyl	3,4-diHOC6H4
	146	3-pyridylmethyl	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	147	3-pyridylmethyl	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	148	4-pyridylmethyl	4-MeOC <sub>6</sub> H <sub>4</sub>
			1
	149	4-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub>
35	149 150	4-pyridylmethyl 4-pyridylmethyl	
35			3-MeOC <sub>6</sub> H <sub>4</sub>
35	150	4-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
35	150 151	4-pyridylmethyl 4-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
35	150 151 152	4-pyridylmethyl 4-pyridylmethyl 4-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	155	4-pyridylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	156	4-pyridylmethyl	4-pyridyl
	157	4-pyridylmethyl	3-pyridyl
	158	4-pyridylmethyl	2-pyridyl
	159	4-pyridylmethyl	2-thiazolyl
10	160	4-pyridylmethyl	2-pyrazolyl
	161	4-pyridylmethyl	5-isoquinolyl
	162	4-pyridylmethyl	3,4-
	•		methylenedioxyC <sub>6</sub> H <sub>3</sub>
	163	4-pyridylmethyl	3,4-
15			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	164	4-pyridylmethyl	2-imidazolyl
	165	4-pyridylmethyl	2-oxazolyl
	166	4-pyridylmethyl	4-isoxazolyl
	167	4-pyridylmethyl	4-HOC6H4
20	168	4-pyridylmethyl	3-HOC6H4
	169	4-pyridylmethyl	3,4-diHOC6H4
	170	4-pyridylmethyl	4-NH2CH2C6H4
	171	4-pyridylmethyl	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	172	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
25	173	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	174	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	175	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	176	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	177	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
30	178	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me2NC6H4
	179	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	180	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	181	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	182	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
3.5		2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
35	183		-
	184	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	185	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	186	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>

5	187	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC6H3
	188	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl .
	189	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl '
	190	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
10	191	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	192	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	193	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	194	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	195	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4
15	196	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC6H4
	197	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	198	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	199	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	200	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
20	201	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me2NC6H4
	202	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	203	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	204	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	205	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
25	206	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	207	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	208	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	209	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
30	210	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	211	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	212	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	213	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
35	214	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	215	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	216	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	217	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4

5	218	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	219	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	220	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	221	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	222	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	223	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	224	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	225	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	226	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	227	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
15	228	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	229	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	230	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	231	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	232	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
20			$methylenedioxyC_6H_3$
	233	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxy $C_6H_3$
	234	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl
	234	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	
25	•		2-imidazolyl
25	235	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl
25	235	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl
25	235 236 237	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4
25	235 236 237 238	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4
25	235 236 237 238 239	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4
	235 236 237 238 239 240	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4
	235 236 237 238 239 240	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4
	235 236 237 238 239 240 241	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MEOC6H4
	235 236 237 238 239 240 241 242	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-MEOC6H4 4-NH2CH4C6H4
	235 236 237 238 239 240 241 242 243	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-MeOC6H4 4-NH2CH4 3-MeOC6H4 4-NH2C6H4
30	235 236 237 238 239 240 241 242 243 244	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MEOC6H4 4-NH2CH4 3-MEOC6H4 4-NH2C6H4 2-NH2C6H4
30	235 236 237 238 239 240 241 242 243 244 245	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MEOC6H4 4-NH2C6H4 4-NH2C6H4 4-NH2C6H4 3-NH2C6H4 4-NH2C6H4

_			
5	250	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	251	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	252	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl .
	253	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl '
	254	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
10	255	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	256	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	257	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
15	258	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	259	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	260	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	261	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	262	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
20	263	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	264	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	265	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	266	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	267	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
25	268	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	269	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	270	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	271	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	272	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
30	273	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	274	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	275	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	276	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	277	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
35	278	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			$methylenedioxyC_6H_3$
	279	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>

-	200	3 M00CcU4CU0	2-imidazolyl
5	280	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	-
	281	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	282	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	283	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	284	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
10	285	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	286	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	287	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	288	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	289	4-MeOC6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
15	290	4-MeOC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	291	4-MeOC6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	292	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	293	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	294	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
20	295	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	296	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	297	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	298	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	299	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
25	300	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	301	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	302	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
30	303	4-MeOC6H4CH2	2-imidazolyl
	304	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	305	4-MeOC6H4CH2	4-isoxazolyl
	306	4-MeOC6H4CH2	4-HOC <sub>6</sub> H <sub>4</sub>
	307	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
35	308	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
•	309	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
•	310	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4
	311	2-HOC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>

5	312	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	313	2-HOC6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	314	2-HOC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> .
	315	2-HOC6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	316	2-HOC6H4CH2	4-Me2NC6H4
10	317	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me2NC6H4
	318	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	319	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	320	2-HOC6H4CH2	3-pyridyl
	321	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
15	322	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	323	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	324	2-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	325	2-HOC6H4CH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
20	326	2-HOC6H4CH2	3,4-
			ethylenedioxy $C_6H_3$
	327	2-HOC6H4CH2	2-imidazolyl
	328	2-HOC6H4CH2	2-oxazolyl
	329	2-HOC6H4CH2	4-isoxazolyl
25	330	2-HOC6H4CH2	4-HOC6H4
	331	2-HOC6H4CH2	3-HOC6H4
	332	2-HOC6H4CH2	3,4-diHOC6H4
	333	2-HOC6H4CH2	4-NH2CH2C6H4
	334	2-HOC6H4CH2	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	335	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
	336	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	337	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	338	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	339	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
35	340	3-HOC6H4CH2	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	341	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	342	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	.343	3-HOC6H4CH2	4-pyridyl

5	344	3-HOC6H4CH2	3-pyridyl
	345	3-H0C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	346	3-HOC6H4CH2	2-thiazolyl
	347	3-HOC6H4CH2	2-pyrazolyl
	348	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
10	349	3-HOC6H4CH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	350	3-HOC6H4CH2	3,4-
			ethylenedioxy $C_6H_3$
	351	3-HOC6H4CH2	2-imidazolyl
15	352	3-HOC6H4CH2	2-oxazolyl
	353	3-HOC6H4CH2	4-isoxazolyl
	354	3-HOC6H4CH2	4-HOC6H4
	355	3-HOC6H4CH2	3-HOC6H4
	356	3-HOC6H4CH2	3,4-diHOC6H4
20	357	3-HOC6H4CH2	4-NH2CH2C6H4
	358	3-HOC6H4CH2	3-NH2CH2C6H4
	359	4-HOC6H4CH2	4-MeOC6H4
	360	4-HOC6H4CH2	3-MeOC <sub>6</sub> H <sub>4</sub>
	361	4-HOC6H4CH2	4-NH2C6H4
25	362	4-HOC6H4CH2	3-NH2C6H4
	363	4-HOC6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	364	4-HOC6H4CH2	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	365	4-HOC6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	366	4-HOC6H4CH2	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
30	367	4-HOC6H4CH2	4-pyridyl
	368	4-HOC6H4CH2	3-pyridyl
	369	4-HOC6H4CH2	2-pyridyl
	370	4-HOC6H4CH2	2-thiazolyl
	371	4-HOC6H4CH2	2-pyrazolyl
35	372	4-HOC6H4CH2	5-isoquinolyl
	373	4-HOC6H4CH2	3,4-
•			$methylenedioxyC_6H_3$

5	374	4-HOC6H4CH2	3,4-
			ethylenedioxyC6H3
	375	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	376	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl '
	377	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
10	378	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	379	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	380	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	381	4-HOC6H4CH2	4-NH2CH2C6H4
	382	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
15	383	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	384	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	385	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	386	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	387	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me2NC6H4
20	388	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	389	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	390	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	391	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	392	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
25	393	4-ClC6H4CH2	2-thiazolyl
	394	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	395	4-C1C6H4CH2	5-isoquinolyl
	396	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
30	397	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	398	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	399	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	400	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
35	401	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC <sub>6</sub> H <sub>4</sub>
	402	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC <sub>6</sub> H <sub>4</sub>
	403	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	404	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4

5	405	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	406	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	407	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	408	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	409	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	410	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	411	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	412	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	413	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	414	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
15	415	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	416	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	417	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	418	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	419	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
20	420	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			$methylenedioxyC_6H_3$
	421	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
	421	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	421	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	
25		•	ethylenedioxyC <sub>6</sub> H <sub>3</sub>
25	422	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl
25	422 423	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl
25	422 423 424	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl
25	422 423 424 425	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub>
25	422 423 424 425 426	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub>
	422 423 424 425 426 427	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub>
	422 423 424 425 426 427 428	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	422 423 424 425 426 427 428 429	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	422 423 424 425 426 427 428 429	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub>
	422 423 424 425 426 427 428 429 430 431	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub>
30	422 423 424 425 426 427 428 429 430 431 432	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	422 423 424 425 426 427 428 429 430 431 432 433	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	437	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	438	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	439	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl .
	440	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl '
	441	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
10	442	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	443	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	444	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	445	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
15			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	446	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	447	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	448	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	449	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
20	450	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	451	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	452	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	$4-NH_2CH_2C_6H_4$
	453	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	454	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
25	455	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	456	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	457	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	458	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	459	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
30	460	4-NH2CH2C6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	461	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	462	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	463	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	464	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
35	465	4-NH2CH2C6H4CH2	2-thiazolyl
	466	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	467	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl

5	468	4-NH2CH2C6H4CH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	469	4-NH2CH2C6H4CH2	3,4-
			ethylenedioxy $C_6H_3$
	470	4-NH2CH2C6H4CH2	2-imidazolyl
10	471	4-NH2CH2C6H4CH2	2-oxazolyl
	472	4-NH2CH2C6H4CH2	4-isoxazolyl
	473	4-NH2CH2C6H4CH2	4-HOC6H4
	474	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	475	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
15	476	4-NH2CH2C6H4CH2	4-NH2CH2C6H4
	477	4-NH2CH2C6H4CH2	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	478	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	479	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	480	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	481	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	482	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	483	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	484	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	485	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
25	486	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	487	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	488	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	2-pyridyl
	489	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	490	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
30	491	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	492	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	493	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
35	494	2-Me2NCH2C6H4CH2	2-imidazolyl
	495	2-Me2NCH2C6H4CH2	2-oxazolyl
	496	2-Me2NCH2C6H4CH2	4-isoxazolyl
	497	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4

5	498	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC <sub>6</sub> H <sub>4</sub>
	499	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC <sub>6</sub> H <sub>4</sub>
	500	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> .
	501	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> '
	502	$3-Me_2NCH_2C_6H_4CH_2$	4-MeOC <sub>6</sub> H <sub>4</sub>
10	503	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	504	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	505	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	506	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	507	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	508	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	509	$3-Me_2NCH_2C_6H_4CH_2$	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	510	$3-Me_2NCH_2C_6H_4CH_2$	4-pyridyl
	511	$3-Me_2NCH_2C_6H_4CH_2$	3-pyridyl
	512	$3-Me_2NCH_2C_6H_4CH_2$	2-pyridyl
20	513	$3-Me_2NCH_2C_6H_4CH_2$	2-thiazolyl
	514	$3-Me_2NCH_2C_6H_4CH_2$	2-pyrazolyl
	515	$3-Me_2NCH_2C_6H_4CH_2$	5-isoquinolyl
	516	$3-Me_2NCH_2C_6H_4CH_2$	3,4-
			$methylenedioxyC_6H_3$
25	517	$3-Me_2NCH_2C_6H_4CH_2$	3,4-
		•	ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	518	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	519	$3-Me_2NCH_2C_6H_4CH_2$	2-oxazolyl
	520	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
30	521	$3-Me_2NCH_2C_6H_4CH_2$	4-HOC6H4
	522	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	523	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	524	$3-Me_2NCH_2C_6H_4CH_2$	4-NH2CH2C6H4
	525	$3-Me_2NCH_2C_6H_4CH_2$	3-NH2CH2C6H4
35	526	$4-Me_2NCH_2C_6H_4CH_2$	4-MeOC <sub>6</sub> H <sub>4</sub>
	527	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	528	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	529	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	530	4-Me2NCH2C6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	531	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me2NC6H4
	532	$4-Me_2NCH_2C_6H_4CH_2$	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	533	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	534	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
10	535	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	536	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	537	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	538	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	539	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
15	540	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			$methylenedioxyC_6H_3$
	541	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC6H3
	542	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
20	543	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	545	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	546	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	547	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	548	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
25	549	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	550	$4-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	551	н	3-MeOC <sub>6</sub> H <sub>4</sub>
	552	Н	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	553	Н	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	554	Н	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	555	н	4-Me2NC6H4
	556	Н	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	557	Н	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	558	Н	3-pyridyl
35	559	Н	2-pyridyl
•	560	Н	2-thiazolyl
•	561	Н	2-pyrazolyl
	562	Н	5-isoquinolyl

5	563	Н	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	564	Н	3,4-
			ethylenedioxy $\mathbb{C}_6$ H $_3$
	565	Н	2-imidazolyl
10	566	Н	2-oxazolyl
	567	Н	4-isoxazolyl
	5.68	Н	4-HOC6H4
	569	Н	3-HOC6H4
	570	Н	3,4-diHOC6H4
15	571	Н	4-NH2CH2C6H4
	572	Н	3-NH2CH2C6H4
	573	Me	3-MeOC <sub>6</sub> H <sub>4</sub>
	574	Me	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	575	Me	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	576	Me	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	577	Me	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	578	Me	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	579	Me	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	580	Me	3-pyridyl
25	581	Me	2-pyridyl
	582	Me	2-thiazolyl
	583	Me	2-pyrazolyl
	584	Me	5-isoquinolyl
	585	Me	3,4-
30			ethylenedioxy $C_6H_3$
	586	Me	2-imidazolyl
	587	Me	2-oxazolyl
	588	Me	4-isoxazolyl
	589	Me	3-HOC6H4
35	590	Me	3,4-diHOC6H4
	591	Me	4-NH2CH2C6H4
	592	Me	3-NH2CH2C6H4
	593	Et	3-MeOC <sub>6</sub> H <sub>4</sub>
	594	Et	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
			·2 - U

5	595	Et	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	596	Et	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	597	Et	4-Me2NC6H4
	598	Et	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	599	Et	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
10	600	Et	4-pyridyl
	601	Et	3-pyridyl
	601	Et	2-pyridyl
	603	Et	2-thiazolyl
	604	Et	2-pyrazolyl
15	605	Et	5-isoquinolyl
	606	Et	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	607	Et	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
20	608	Et	2-imidazolyl
	609	Et	2-oxazolyl
	610	Et	4-isoxazolyl
	611	Et	4-HOC6H4
	612	Et	3-HOC6H4
25	613	Et	3,4-diHOC6H4
	614	Et	4-NH2CH2C6H4
	615	Et	3-NH2CH2C6H4
	616	Me <sub>2</sub> NCH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	617	Me <sub>2</sub> NCH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	618	Me <sub>2</sub> NCH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	619	Me <sub>2</sub> NCH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	620	Me2NCH2	4-Me2NC6H4
	621	Me <sub>2</sub> NCH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	622	Me <sub>2</sub> NCH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
35	623	Me <sub>2</sub> NCH <sub>2</sub>	4-pyridyl
55	624	Me <sub>2</sub> NCH <sub>2</sub>	3-pyridyl
_		Me <sub>2</sub> NCH <sub>2</sub>	2-pyridyl
	625		2-thiazolyl
	626	Me <sub>2</sub> NCH <sub>2</sub>	
	627	Me <sub>2</sub> NCH <sub>2</sub>	2-pyrazolyl

5	628	Me2NCH2	5-isoquinolyl
	629	$Me_2NCH_2$	3,4-
			$methylenedioxyC_6H_3$
	630	Me <sub>2</sub> NCH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
10	631	Me <sub>2</sub> NCH <sub>2</sub>	2-imidazolyl
	632	Me <sub>2</sub> NCH <sub>2</sub>	2-oxazolyl
	633	Me <sub>2</sub> NCH <sub>2</sub>	4-isoxazolyl
	634	Me2NCH2	4-HOC6H4
	635	Me2NCH2	3-HOC6H4
15	636	Me <sub>2</sub> NCH <sub>2</sub>	3,4-diHOC6H4
	637	Me <sub>2</sub> NCH <sub>2</sub>	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	638	Me <sub>2</sub> NCH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	639	EtNHCH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	640	EtNHCH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	641	EtNHCH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	642	EtNHCH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	643	EtNHCH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	644	EtNHCH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	645	EtNHCH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
25	646	EtNHCH <sub>2</sub>	4-pyridyl
	647	EtNHCH <sub>2</sub>	3-pyridyl
	648	EtNHCH <sub>2</sub>	2-pyridyl
	649	EtNHCH <sub>2</sub>	2-thiazolyl
	650	EtNHCH <sub>2</sub>	2-pyrazolyl
30	651	EtNHCH <sub>2</sub>	5-isoquinolyl
	652	EtNHCH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	653	EtNHCH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
35	654	EtNHCH <sub>2</sub>	2-imidazolyl
	655	EtNHCH <sub>2</sub>	2-oxazolyl
	656	EtNHCH <sub>2</sub>	4-isoxazolyl
	657	EtNHCH <sub>2</sub>	4-HOC6H4

5	658	EtNHCH <sub>2</sub>	3-HOC6H4
	659	EtNHCH <sub>2</sub>	3,4-diHOC6H4
	660	EtNHCH <sub>2</sub>	4-NH2CH2C6H4
	661	EtNHCH <sub>2</sub>	3-NH2CH2C6H4
	662	HOCH2CH2NHCH2	3-MeOC <sub>6</sub> H <sub>4</sub>
10	663	HOCH2CH2NHCH2	4-NH2C6H4
	664	HOCH2CH2NHCH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	665	HOCH2CH2NHCH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	666	HOCH2CH2NHCH2	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	667	HOCH2CH2NHCH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	668	HOCH2CH2NHCH2	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	669	HOCH2CH2NHCH2	4-pyridyl
	670	HOCH2CH2NHCH2	3-pyridyl
	671	HOCH2CH2NHCH2	2-pyridyl
	672	HOCH2CH2NHCH2	2-thiazolyl
20	673	HOCH2CH2NHCH2	2-pyrazolyl
	674	HOCH2CH2NHCH2	5-isoquinolyl
	675	HOCH2CH2NHCH2	3 , 4 -
	0.5		
	0.5		methylenedioxyC6H3
	676	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	methylenedioxyC <sub>6</sub> H <sub>3</sub>
25			
25			3,4-
25	676	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub>
25	676 677	$HOCH_2CH_2NHCH_2$ $HOCH_2CH_2NHCH_2$	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl
25	676 677 678	$HOCH_2CH_2NHCH_2$ $HOCH_2CH_2NHCH_2$ $HOCH_2CH_2NHCH_2$	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl
25	676 677 678 679	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl
	676 677 678 679 680	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4
	676 677 678 679 680 681	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub>
	676 677 678 679 680 681 682	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub>
	676 677 678 679 680 681 682 683	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	676 677 678 679 680 681 682 683	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	676 677 678 679 680 681 682 683 684	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub>
30	676 677 678 679 680 681 682 683 684 685	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub> H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	a,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 4-MeOC6H4 3-MeOC6H4

5	690	H2NCH2CH2NHCH2	4-Me2NC6H4
	691	H2NCH2CH2NHCH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	692	H2NCH2CH2NHCH2	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	693	H2NCH2CH2NHCH2	4-pyridyl
	694	H2NCH2CH2NHCH2	3-pyridyl
10	695	H2NCH2CH2NHCH2	2-pyridyl
	696	H2NCH2CH2NHCH2	2-thiazolyl
	697	H2NCH2CH2NHCH2	2-pyrazolyl
	698	H2NCH2CH2NHCH2	5-isoquinolyl
	699	H2NCH2CH2NHCH2	3,4-
15			$methylenedioxyC_6H_3$
	700	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4-
			ethylenedioxy $C_6H_3$
	701	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-imidazolyl
	702	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-oxazolyl
20	703	H2NCH2CH2NHCH2	4-isoxazolyl
	704	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	4-HOC6H4
	705	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3-HOC6H4
	706	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3,4-diHOC <sub>6</sub> H <sub>4</sub>
	707	H2NCH2CH2NHCH2	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
25	708	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	709	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	710	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	711	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	712	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	713	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	714	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	$4-Me_2NC_6H_4$
	715	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	716	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	717	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	4-pyridyl
35	718	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	3-pyridyl
	719	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-pyridyl
	720	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-thiazolyl
	721	Me <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub>	2-pyrazolyl

5	722	Me2NCH2CH2NHCH2	5-isoquinolyl
	723	Me2NCH2CH2NHCH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	724	Me2NCH2CH2NHCH2	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
10	725	Me2NCH2CH2NHCH2	2-imidazolyl
	726	Me2NCH2CH2NHCH2	2-oxazolyl
	727	Me2NCH2CH2NHCH2	4-isoxazolyl
	728	Me2NCH2CH2NHCH2	4-HOC6H4
	729	Me2NCH2CH2NHCH2	3-HOC6H4
15	730	Me2NCH2CH2NHCH2	3,4-diHOC6H4
	731	Me2NCH2CH2NHCH2	4-NH2CH2C6H4
	732	Me2NCH2CH2NHCH2	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	733	1-morpholinylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub>
	734	1-morpholinylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	735	1-morpholinylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	736	1-morpholinylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	737	1-morpholinylmethyl	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	738	1-morpholinylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	739	1-morpholinylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
25	740	1-morpholinylmethyl	4-pyridyl
	741	1-morpholinylmethyl	3-pyridyl
	742	1-morpholinylmethyl	2-pyridyl
	743	1-morpholinylmethyl	2-thiazolyl
	744	1-morpholinylmethyl	2-pyrazolyl
30	745	1-morpholinylmethyl	5-isoquinolyl
	746	1-morpholinylmethyl	3,4- methylenedioxyC <sub>6</sub> H <sub>3</sub>
	242	1 marshalinulmathul	
	747	1-morpholinylmethyl	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub>
2.5	748	1-morpholinylmethyl	2-imidazolyl
35	748	1-morpholinylmethyl	2-oxazolyl
	750	1-morpholinylmethyl	4-isoxazolyl
	751	1-morpholinylmethyl	4-HOC6H4
	752	1-morpholinylmethyl	3-HOC6H4

5	753	1-morpholinylmethyl	3,4-diHOC6H4
	754	1-morpholinylmethyl	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	755	1-morpholinylmethyl	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> .
	756	1-thiomorpholinylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub>
	757	1-thiomorpholinylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	758	1-thiomorpholinylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	759	1-thiomorpholinylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	760	1-thiomorpholinylmethyl	4-Me2NC6H4
	761	1-thiomorpholinylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	762	1-thiomorpholinylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	763	1-thiomorpholinylmethyl	4-pyridyl
	764	1-thiomorpholinylmethyl	3-pyridyl
	765	1-thiomorpholinylmethyl	2-pyridyl
	766	l-thiomorpholinylmethyl	2-thiazolyl
	767	l-thiomorpholinylmethyl	2-pyrazolyl
20	768	l-thiomorpholinylmethyl	5-isoquinolyl
	769	1-thiomorpholinylmethyl	3,4-
			$methylenedioxyC_6H_3$
	770	1-thiomorpholinylmethyl	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
25	771	1-thiomorpholinylmethyl	2-imidazolyl
25	772	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	
25	772 773		2-imidazolyl
25	772	1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl
25	772 773	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl
25	772 773 774	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub>
	772 773 774 775	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub>
	772 773 774 775 776	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub>
	772 773 774 775 776 777	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	772 773 774 775 776 777	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4
	772 773 774 775 776 777 778	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-piperazinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MeOC6H4
30	772 773 774 775 776 777 778 779	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MeOC6H4 4-NH2C6H4
30	772 773 774 775 776 777 778 779 780	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MeOC6H4 4-NH2C6H4 3-MH2C6H4
30	772 773 774 775 776 777 778 779 780 781	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MeOC6H4 4-NH2C6H4 3-NH2C6H4 2-NH2C6H4
30	772 773 774 775 776 777 778 779 780 781 782 783	1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-thiomorpholinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl 1-piperazinylmethyl	2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 3-MeOC6H4 4-NH2C6H4 4-NH2C6H4 2-NH2C6H4 2-NH2C6H4

5	786	1-piperazinylmethyl	4-pyridyl
	787	l-piperazinylmethyl	3-pyridyl
	788	1-piperazinylmethyl	2-pyridyl
	789	l-piperazinylmethyl	2-thiazolyl
	790	l-piperazinylmethyl	2-pyrazolyl
1 C	791	l-piperazinylmethyl	5-isoquinolyl
	792	1-piperazinylmethyl	3,4-
			methylenedioxy $C_6H_3$
	793	l-piperazinylmethyl	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
15	794	1-piperazinylmethyl	2-imidazolyl
	795	1-piperazinylmethyl	2-oxazolyl
	796	1-piperazinylmethyl	4-isoxazolyl
	797	1-piperazinylmethyl	4-HOC6H4
	798	1-piperazinylmethyl	3-HOC6H4
20	799	1-piperazinylmethyl	3,4-diHOC6H4
	800	1-piperazinylmethyl	4-NH2CH2C6H4
	801	l-piperazinylmethyl	3-NH2CH2C6H4

Table 3

25

30	Example Number	R <sup>1</sup>	R <sup>2</sup>
	802	2-pyridylmethyl	4-MeOC6H4
	803	2-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub>
	804	2-pyridylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
35	805	2-pyridylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	806	2-pyridylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	807	2-pyridylmethyl	4-Me2NC6H4
	808	2-pyridylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	809	2-pyridylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> .
	810	2-pyridylmethyl	4-pyridyl '
	811	2-pyridylmethyl	3-pyridyl
10	812	2-pyridylmethyl	2-pyridyl
	813	2-pyridylmethyl	2-thiazolyl
	814	2-pyridylmethyl	2-pyrazolyl
	815	2-pyridylmethyl	5-isoquinolyl
	816	2-pyridylmethyl	3,4-
15			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	817	2-pyridylmethyl	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	818	2-pyridylmethyl	2-imidazolyl
	819	2-pyridylmethyl	2-oxazolyl
20	820	2-pyridylmethyl	4-isoxazolyl
	821	2-pyridylmethyl	4-HOC <sub>6</sub> H <sub>4</sub>
	822	2-pyridylmethyl	3-HOC6H4
	823	2-pyridylmethyl	3,4-diHOC6H4
	824	2-pyridylmethyl	4-NH2CH2C6H4
25	825	2-pyridylmethyl	3-NH2CH2C6H4
	826	3-pyridylmethyl	4-MeOC6H4
	827	3-pyridylmethyl	3-MeOC6H4
	828	3-pyridylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	829	3-pyridylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	830	3-pyridylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	831	3-pyridylmethyl	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	832	3-pyridylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	833	3-pyridylmethyl	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	834	3-pyridylmethyl	4-pyridyl
35	835	3-pyridylmethyl	3-pyridyl
	836	3-pyridylmethyl	2-pyridyl
	837	3-pyridylmethyl	2-thiazolyl
	838	3-pyridylmethyl	2-pyrazolyl
	839	3-pyridylmethyl	5-isoquinolyl

5	840	3-pyridylmethyl	3,4- methylenedioxyC <sub>6</sub> H <sub>3</sub>
	841	3-pyridylmethyl	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	842	3-pyridylmethyl	2-imidazolyl
10	843	3-pyridylmethyl	2-oxazolyl
	844	3-pyridylmethyl	4-isoxazolyl
	845	3-pyridylmethyl	4-HOC6H4
	846	3-pyridylmethyl	3-HOC6H4
	847	3-pyridylmethyl	3,4-diHOC6H4
15	848	3-pyridylmethyl	4-NH2CH2C6H4
	849	3-pyridylmethyl	3-NH2CH2C6H4
	850	4-pyridylmethyl	4-MeOC <sub>6</sub> H <sub>4</sub>
	851	4-pyridylmethyl	3-MeOC <sub>6</sub> H <sub>4</sub>
	852	4-pyridylmethyl	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	853	4-pyridylmethyl	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	854	4-pyridylmethyl	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	855	4-pyridylmethyl	4-Me2NC6H4
	856	4-pyridylmethyl	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	857	4-pyridylmethyl	2-Me2NC6H4
25	858	4-pyridylmethyl	4-pyridyl
	859	4-pyridylmethyl	3-pyridyl
	860	4-pyridylmethyl	2-pyridyl
	861	4-pyridylmethyl	2-thiazolyl
	862	4-pyridylmethyl	2-pyrazolyl
30	863	4-pyridylmethyl	5-isoquinolyl
	864	4-pyridylmethyl	3,4-
			methylenedioxyC6H3
	865	4-pyridylmethyl	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
35	866	4-pyridylmethyl	2-imidazolyl
	867	4-pyridylmethyl	2-oxazolyl
•	868	4-pyridylmethyl	4-isoxazolyl
•	869	4-pyridylmethyl	4-HOC <sub>6</sub> H <sub>4</sub>
	870	4-pyridylmethyl	3-HOC6H4
40	871	4-pyridylmethyl	3,4-diHOC <sub>6</sub> H <sub>4</sub>

5	872	4-pyridylmethyl	4-NH2CH2C6H4
	873	4-pyridylmethyl	3-NH2CH2C6H4
	874	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-MeOC <sub>6</sub> H <sub>4</sub> ·
	875	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	876	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	877	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	878	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	879	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	880	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	881	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	882	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	883	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
	884	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	885	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	886	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
20	887	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	888	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	889	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	methylenedioxyC <sub>6</sub> H <sub>3</sub>
	889	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	_
25	889	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
25			3,4- ethylenedioxyC6H3
25	890	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl
25	890 891	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl
25	890 891 892	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl
25	890 891 892 893	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub>
	890 891 892 893	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4
	890 891 892 893 894	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4
	890 891 892 893 894 895	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	a,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	890 891 892 893 894 895 896	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	a,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	890 891 892 893 894 895 896 897	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	a,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub>
30	890 891 892 893 894 895 896 897 898	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	a,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 4-MeOC6H4 3-MeOC6H4
30	890 891 892 893 894 895 896 897 898 899	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	a, 4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3, 4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 4-MeOC6H4 3-MeOC6H4 4-NH2C6H4

5	904	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	905	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	906	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	907	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
	908	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
10	909	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	910	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	911	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	912	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
15	913	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	914	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	915	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	916	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
20	917	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	918	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	919	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
	920	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	921	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
25	922	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	923	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	924	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	925	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	926	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	927	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me2NC6H4
	928	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	930	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	931	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	932	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
35	933	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
,	934	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	935	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	936	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl

5	937	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3 , 4 -
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	938	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxy $\dot{C}_6H_3$
	939	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-imidazolyl
10	940	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	941	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	942	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	943	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	944	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
15	945	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	946	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH2CH2C6H4
	947	2-MeOC <sub>6</sub> H <sub>4</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	948	2-MeOC <sub>6</sub> H <sub>4</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	949	2-MeOC <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	950	2-MeOC <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	951	2-MeOC <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	952	2-MeOC <sub>6</sub> H <sub>4</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	953	2-MeOC <sub>6</sub> H <sub>4</sub>	3-Me2NC6H4
	954	2-MeOC <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
25	955	2-MeOC <sub>6</sub> H <sub>4</sub>	4-pyridyl
	956	2-MeOC <sub>6</sub> H <sub>4</sub>	3-pyridyl
	957	2-MeOC <sub>6</sub> H <sub>4</sub>	2-pyridyl
	958	2-MeOC <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	959	2-MeOC <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
30	960	2-MeOC <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	961	2-MeOC <sub>6</sub> H <sub>4</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	962	2-MeOC <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxy $C_6H_3$
35	963	2-MeOC <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	964	2-MeOC <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	965	2-MeOC <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	966	2-MeOC <sub>6</sub> H <sub>4</sub>	4-HOC6H4

5	967	2-MeOC <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	968	2-MeOC <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
	969	2-MeOC <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	970	2-MeOC <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	971	3-MeOC <sub>6</sub> H <sub>4</sub>	4-MeOC6H4
10	972	3-MeOC <sub>6</sub> H <sub>4</sub>	3-MeOC6H4
	973	3-MeOC <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	974	3-MeOC <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	975	3-MeOC <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	976	3-MeOC <sub>6</sub> H <sub>4</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	977	3-MeOC <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	978	3-MeOC <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	979	3-MeOC <sub>6</sub> H <sub>4</sub>	4-pyridyl
	980	3-MeOC <sub>6</sub> H <sub>4</sub>	3-pyridyl
	981	3-MeOC <sub>6</sub> H <sub>4</sub>	2-pyridyl
20	982	3-MeOC <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	983	3-MeOC <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	984	3-MeOC <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	985	3-MeOC <sub>6</sub> H <sub>4</sub>	3,4-
			methylenedioxyC6H3.
25	986	3-MeOC <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	987	3-MeOC <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	988	3-MeOC <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	989	3-MeOC <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
30	990	3-MeOC <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	991	3-MeOC <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	992	3-MeOC <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
	993	3-MeOC <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	994	3-MeOC <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
35	995	4-MeOC <sub>6</sub> H <sub>4</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	996	4-MeOC <sub>6</sub> H <sub>4</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	997	4-MeOC <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	998	4-MeOC <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	999	4-MeOC <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1000	4-MeOC <sub>6</sub> H <sub>4</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1001	4-MeOC6H4	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> .
	1002	4-MeOC6H4	2-Me2NC6H4
	1003	4-MeOC <sub>6</sub> H <sub>4</sub>	4-pyridyl
10	1004	4-MeOC <sub>6</sub> H <sub>4</sub>	3-pyridyl
	1005	4-MeOC <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1006	4-MeOC <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	1007	4-MeOC <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	1008	4-MeOC <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
15	1009	4-MeOC <sub>6</sub> H <sub>4</sub>	3,4-
			$methylenedioxyC_6H_3$
	1010	4-MeOC <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1011	4-MeOC <sub>6</sub> H <sub>4</sub>	2-imidazolyl
20	1012	4-MeOC <sub>6</sub> H <sub>4</sub>	2-oxazolyl
•	1013	4-MeOC <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	1014	4-MeOC <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	1015	4-MeOC <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	1016	4-MeOC <sub>6</sub> H <sub>4</sub>	3,4-diHOC <sub>6</sub> H <sub>4</sub>
25	1017	4-MeOC <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	1018	4-MeOC <sub>6</sub> H <sub>4</sub>	3-NH2CH2C6H4
	1019	2-HOC6H4	4-MeOC <sub>6</sub> H <sub>4</sub>
	1020	2-HOC6H4	3-MeOC <sub>6</sub> H <sub>4</sub>
	1021	2-H0C6H4	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1022	2-HOC6H4	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1023	2-HOC6H4	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1024	2-HOC <sub>6</sub> H <sub>4</sub>	4-Me2NC6H4
	1025	2-HOC6H4	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1026	2-HOC6H4	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
35	1027	2-HOC6H4	4-pyridyl
	1028	2-HOC6H4	3-pyridyl
	1029	2-HOC <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1030	2-HOC6H4	2-thiazolyl

5	1031	2-HOC6H4	2-pyrazolyl
	1032	2-HOC6H4	5-isoquinolyl
	1033	2-HOC6H4	3,4-
			methylenedioxyC6H3
	1034	2-HOC6H4	3,4-
10			ethylenedioxy $C_6H_3$
	1035	2-HOC6H4	2-imidazolyl
	1036	2-HOC6H4	2-oxazolyl
	1037	2-HOC6H4	4-isoxazolyl
	1038	2-HOC6H4	4-HOC6H4
15	1039	2-HOC6H4	3-HOC6H4
	1040	2-HOC6H4	3,4-diHOC6H4
	1041	2-HOC6H4	4-NH2CH2C6H4
	1042	2-HOC6H4	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1043	3-HOC6H4	4-MeOC <sub>6</sub> H <sub>4</sub>
20	1044	3-HOC6H4	3-MeOC <sub>6</sub> H <sub>4</sub>
	1045	3-HOC6H4	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1046	3-HOC6H4	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1047	3-HOC6H4	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1048	3-HOC6H4	4-Me2NC6H4
25	1049	3-HOC6H4	3-Me2NC6H4
	1050	3-HOC6H4	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1051	3-HOC6H4	4-pyridyl
	1052	3-H0C6H4	3-pyridyl
	1053	3-HOC6H4	2-pyridyl
30	1054	3-HOC6H4	2-thiazolyl
	1055	3-HOC <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	1056	3-H0C6H4	5-isoquinolyl
	1057	3-H0C6H4	3,4-
	•		$methylenedioxyC_6H_3$
35	1058	3-HOC6H4	3,4~
·			ethylenedioxy $C_6H_3$
•	1059	3-HOC6H4	2-imidazolyl
	1060	3-H0C6H4	2-oxazolyl

5	1061	3-HOC6H4	4-isoxazolyl
	1062	3-HOC6H4	4-HOC6H4
	1063	3-HOC6H4	3-HOC6H4 ·
	1064	3-HOC6H4	3,4-diHOC6H4
	1065	3-HOC <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
10	1066	3-HOC6H4	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1067	4-HOC6H4	4-MeOC6H4
	1068	4-HOC6H4	3-MeOC <sub>6</sub> H <sub>4</sub>
	1069	4-HOC6H4	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1070	4-HOC6H4	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
15	1071	4-HOC6H4	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1072	4-HOC6H4	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1073	4-HOC <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1074	4-HOC6H4	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1075	4-HOC6H4	4-pyridyl
20	1076	4-HOC6H4	3-pyridyl
	1077	4-HOC6H4	2-pyridyl
	1078	4-HOC6H4	2-thiazolyl
	1079	4-HOC6H4	2-pyrazolyl
	1080	4-HOC6H4	5-isoquinolyl
25	1081	4-HOC6H4	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1082	4-HOC6H4	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1083	4-HOC6H4	2-imidazolyl
30	1084	4-HOC6H4	2-oxazolyl
	1085	4-HOC6H4	4-isoxazolyl
	1086	4-HOC6H4	4-HOC6H4
	1087	4-HOC6H4	3-HOC6H4
	1088	4-HOC6H4	3,4-diHOC <u>6</u> H4
35	1089	4-HOC6H4	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1090	4-HOC6H4	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1091	4-C1C6H4	4-MeOC <sub>6</sub> H <sub>4</sub>
	1092	4-C1C6H4	3-MeOC <sub>6</sub> H <sub>4</sub>

		•	
5	1093	4-ClC <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1094	4-ClC <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1095	4-ClC <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1096	4-C1C6H4	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1097	4-ClC <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
10	1098	4-ClC <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1099	4-ClC <sub>6</sub> H <sub>4</sub>	4-pyridyl
	1100	4-C1C6H4	3-pyridyl
	1101	4-C1C6H4	2-pyridyl
	1102	4-C1C6H4	2-thiazolyl
15	1103	4-C1C6H4	2-pyrazolyl
	1104	4-ClC6H4	5-isoquinolyl
	1105	4-C1C6H4	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1106	4-C1C6H4	3,4-
20			ethylenedioxy $C_6H_3$
	1107	4-ClC <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	1108	4-C1C6H4	2-oxazolyl
	1109	4-C1C6H4	4-isoxazolyl
	1110	4-ClC <sub>6</sub> H <sub>4</sub>	4-HOC6H4
25	1111	4-C1C6H4	3-HOC <sub>6</sub> H <sub>4</sub>
	1112	4-C1C6H4	3,4-diHOC6H4
	1113	4-ClC6H4	4-NH2CH2C6H4
	1114	4-ClC6H4	3-NH2CH2C6H4
	1115	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
30	1116	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1117	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH2C6H4
	1118	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1119	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1120	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me2NC6H4
35	1121	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me2NC6H4
	1122	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1123	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	1124	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl

5	1125	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1126	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	1127	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl ·
	1128	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	1129	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
10			methylenedioxyC6H3
	1130	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
		•	ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1131	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	1132	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	· 2-oxazolyl
15	1133	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	1134	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	1135	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	1136	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
	1137	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	1138	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH2CH2C6H4
	1139	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	1140	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-MeOC6H4
	1141	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1142	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
25	1143	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1144	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me2NC6H4
	1145	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1146	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1147	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
30	1148	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
	1149	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1150	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	1151	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	1152	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
35	1153	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			$methylenedioxyC_6H_3$
	1154	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>

5	1155	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	1156	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	1157	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	1158	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	1159	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
10	1160	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
	1161	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	1162	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1163	4-NH2CH2C6H4	4-MeOC6H4
	1164	4-NH2CH2C6H4	3-MeOC <sub>6</sub> H <sub>4</sub>
15	1165	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1166	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1167	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1168	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1169	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me2NC6H4
20	1170	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1171	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	1172	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
	1173	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1174	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
25	1175	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	1176	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	1177	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1178	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
30			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1179	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	1180	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	1181	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	1182	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-HOC6H4
35	1183	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
	1184	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-diHOC <sub>6</sub> H <sub>4</sub>
	1185	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	1186	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH2CH2C6H4

5	1187	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-MeOC6H4
	1188	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-MeOC6H4
	1189	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	$4-NH_2C_6H_4$
	1190	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1191	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	1192	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me2NC6H4
	1193	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me2NC6H4
	1194	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1195	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	1196	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
15	1197	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1198	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	1199	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
	1200	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	1201	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
20			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1202	2-Me2NCH2C6H4	3,4-
	1202	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1202	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
25	1203	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC6H3 2-imidazolyl
25	1203 1204	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl
25	1203 1204 1205	$2-Me_2NCH_2C_6H_4$ $2-Me_2NCH_2C_6H_4$ $2-Me_2NCH_2C_6H_4$	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl
25	1203 1204 1205 1206	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4$ $2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4$ $2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4$ $2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4$	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub>
25	1203 1204 1205 1206 1207	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub>
25	1203 1204 1205 1206 1207 1208	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub>
	1203 1204 1205 1206 1207 1208 1209	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1203 1204 1205 1206 1207 1208 1209	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1203 1204 1205 1206 1207 1208 1209 1210	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub>
	1203 1204 1205 1206 1207 1208 1209 1210 1211	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub>
	1203 1204 1205 1206 1207 1208 1209 1210 1211 1212	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 3-MH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	1219	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	1220	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
	1221	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1222	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-thiazolyl
	1223	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyrazolyl
10	1224	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	1225	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			$methylenedioxyC_6H_3$
	1226	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
15	1227	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-imidazolyl
	1228	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-oxazolyl
	1229	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
	1230	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-HOC6H4
	1231	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
20	1232	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3,4-diHOC6H4
	1233	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH2CH2C6H4
	1234	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH2CH2C6H4
	1235	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-MeOC6H4
	1236	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
25	1237	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1238	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1239	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1240	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-Me2NC6H4
	1241	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
30	1242	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1243	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-pyridyl
	1244	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-pyridyl
	1245	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-pyridyl
	1246	4-Me2NCH2C6H4	2-thiazolyl
35	1247	4-Me2NCH2C6H4	2-pyrazolyl
	1248	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	5-isoquinolyl
	1249	4-Me2NCH2C6H4	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>

5	1250	4-Me2NCH2C6H4	3 , 4 -
			ethylenedioxyC6H3
	1251	4-Me2NCH2C6H4	2-imidazolyl .
	1252	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	2-oxazolyl '
	1253	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	4-isoxazolyl
10	1254	4-Me2NCH2C6H4	4-HOC6H4
	1255	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>	3-HOC6H4
•	1256	4-Me2NCH2C6H4	3,4-diHOC <sub>6</sub> H <sub>4</sub>
	1257	4-Me2NCH2C6H4	4-NH2CH2C6H4
	1258	4-Me2NCH2C6H4	3-NH2CH2C6H4
15	1259	н	4-MeOC <sub>6</sub> H <sub>4</sub>
	1260	Н	3-MeOC <sub>6</sub> H <sub>4</sub>
	1261	Н	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1262	Н	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1263	Н	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	1264	Н	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1265	Н	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1266	Н	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1267	Н	4-pyridyl
	1268	Н	3-pyridyl
25	1269	Н	2-pyridyl
	1270	Н	2-thiazolyl
	1271	Н	2-pyrazolyl
	1272	Н	5-isoquinolyl
	1273	Н	3,4-
30			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1274	H .	3,4-
			ethylenedioxy $C_6H_3$
	1275	Н	2-imidazolyl
	1276	Н	2-oxazolyl
35	1277	Н	4-isoxazolyl
	1278	Н	4-HOC6H4
	1279	Н	3-HOC6H4
	1280	Н	3,4-diHOC6H4
	1281	Н	4-NH2CH2C6H4

5	1282	Н	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	.1283	Me	4-MeOC <sub>6</sub> H <sub>4</sub>
	1284	Me	3-MeOC <sub>6</sub> H <sub>4</sub>
	1285	Ме	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1286	Ме	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	1287	Me	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1288	Me	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1289	Me	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1290	Me	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1291	Me	4-pyridyl
15	1292	Me	3-pyridyl
	1293	Me	2-pyridyl
	1294	Me	2-thiazolyl
	1295	Me	2-pyrazolyl
	1296	Me	5-isoquinolyl
20	1297	Me	3,4-
			methylenedioxyC6H3
	1298	Me	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1299	Me	2-imidazolyl
25	1300	Me	2-oxazolyl
	1301	Me	4-isoxazolyl
	1302	Me	4-HOC6H4
	1303	Me	3-HOC6H4
	1304	Me	3,4-diHOC6H4
30	1305	Me	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1306	Me	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1307	Et	4-MeOC <sub>6</sub> H <sub>4</sub>
	1308	Et	3-MeOC6H4
	1309	Et	4-NH2C6H4
35	1310	Et	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1311	Et	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
,	1312	Et	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
•	1313	Et	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1314	Et	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>

5	1315	Et	4-pyridyl
	1316	Et	3-pyridyl
	1317	Et	2-pyridyl
	1318	Et	2-thiazolyl .
	1319	Et	2-pyrazolyl
10	1320	Et	5-isoquinolyl
	1321	Et	3,4-
•			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1322	Et	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
15	1323	Et	2-imidazolyl
	1324	Et	2-oxazolyl
	1325	Et	4-isoxazolyl
	1326	Et	4-HOC6H4
	1327	Et	3-HOC <sub>6</sub> H <sub>4</sub>
20	1328	Et	3,4-diHOC6H4
	1329	Et	4-NH2CH2C6H4
	1330	Et	3-NH2CH2C6H4
	1331	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	1332	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
25	1333	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1334	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1335	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1336	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1337	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
30	1338	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1339	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1340	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1341	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1342	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
35	1343	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1344	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1345	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			$methylenedioxyC_6H_3$

5	1346	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1347	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	1348	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1349	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
10	1350	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1351	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1352	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	1353	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1354	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4
15	1355	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
	1356	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1357	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1358	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1359	3-NH2C6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
20	1360	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me2NC6H4
	1361	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1362	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1363	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1364	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
25	1365	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1366	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	1367	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1367	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1369	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
30			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1370	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC6H3
	1371	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	1372	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
35	1373	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1374	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1375	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1376	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4

5	1377	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1378	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1379	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	1380	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1381	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	1382	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1383	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1384	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1385	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me2NC6H4
	1386	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
15	1387	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1388	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1389	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1390	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	1391	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
20	1392	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1393	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1394	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	methylenedloxyC <sub>6</sub> H <sub>3</sub>
	1394	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	
25	1394	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
25			3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub>
25	1395	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl
25	1395 1396	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub>
25	1395 1396 1397	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl
25	1395 1396 1397 1398	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub>
	1395 1396 1397 1398 1399	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4
	1395 1396 1397 1398 1399	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4
	1395 1396 1397 1398 1399 1400	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1395 1396 1397 1398 1399 1400 1401	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1395 1396 1397 1398 1399 1400 1401 1402	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	a,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1395 1396 1397 1398 1399 1400 1401 1402 1403	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	a,4- ethylenedioxyC6H3 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC6H4 3-HOC6H4 3,4-diHOC6H4 4-NH2CH2C6H4 3-NH2CH2C6H4 4-MeOC6H4 3-MeOC6H4
30	1395 1396 1397 1398 1399 1400 1401 1402 1403 1404	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	a,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> 2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	a,4- ethylenedioxyC <sub>6</sub> H <sub>3</sub> 2-imidazolyl 2-oxazolyl 4-isoxazolyl 4-HOC <sub>6</sub> H <sub>4</sub> 3-HOC <sub>6</sub> H <sub>4</sub> 3,4-diHOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 3-MeOC <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> 4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

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5	1409	2-MeOC6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1410	2-MeOC6H4CH2	2-Me2NC6H4
	1411	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1412	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1413	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
10	1414	2-MeOC6H4CH2	2-thiazolyl
	1415	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1416	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1417	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			$methylenedioxyC_6H_3$
15	1418	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1419	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	1420	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1421	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
20	1422	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1423	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1424	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	1425	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1426	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4
25	1427	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
	1428	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1429	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2C6H4
	1430	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1431	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1432	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me2NC6H4
	1433	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me2NC6H4
	1434	3-MeOC6H4CH2	2-Me2NC6H4
	1435	3-MeOC6H4CH2	4-pyridyl
	1436	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
35	1437	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1438	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	1439	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1440	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl

5	1441	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC6H3
	1442	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1443	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
10	1444	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1445	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1446	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1447	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1448	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
15	1449	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1450	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1451	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	1452	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1453	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	$4-NH_2C_6H_4$
20	1454	4-MeOC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1455	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1456	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1457	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1458	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me2NC6H4
25	1459	4-MeOC6H4CH2	4-pyridyl
	1460	$4-MeOC_6H_4CH_2$	3-pyridyl
	1461	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1462	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	1463	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
30	1464	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1465	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1466	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
35	1467	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	1468	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1469	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1470	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4

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5	1471	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1472	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	1473	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1474	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4
	1475	2-HOC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
10	1476	2-HOC6H4CH2	3-MeOC <sub>6</sub> H <sub>4</sub>
	1477	2-HOC6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1478	2-HOC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1479	2-HOC6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1480	2-HOC6H4CH2	4-Me2NC6H4
15	1481	2-HOC6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1482	2-HOC6H4CH2	2-Me2NC6H4
	1483	2-HOC6H4CH2	4-pyridyl
	1484	2-HOC6H4CH2	3-pyridyl
	1485	2-HOC6H4CH2	2-pyridyl
20	1486	2-HOC6H4CH2	2-thiazolyl
	1487	2-HOC6H4CH2	2-pyrazolyl
	1488	2-HOC6H4CH2	5-isoquinolyl
	1489	2-HOC6H4CH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
25	1490	2-HOC6H4CH2	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1491	2-HOC6H4CH2	2-imidazolyl
	1492	2-HOC6H4CH2	2-oxazolyl
	1493	2-HOC6H4CH2	4-isoxazolyl
30	1494	2-HOC6H4CH2	4-HOC6H4
	1495	2-HOC6H4CH2	3-HOC6H4
	1496	2-HOC6H4CH2	3,4-diHOC6H4
	1497	2-HOC6H4CH2	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1498	2-HOC6H4CH2	3-NH2CH2C6H4
35	1499	3-HOC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
•	1500	3-HOC6H4CH2	3-MeOC <sub>6</sub> H <sub>4</sub>
	1501	3-HOC6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1502	3-HOC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>

5	1503	3-HOC6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1504	3-HOC6H4CH2	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1505	3-HOC6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> ·
	1506	3-HOC6H4CH2	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1507	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
10	1508	3-H0C6H4CH2	3-pyridyl
	1509	3-HOC6H4CH2	2-pyridyl
	1510	3-HOC6H4CH2	2-thiazolyl
	1511	3-HOC6H4CH2	2-pyrazolyl
	1512	3-HOC6H4CH2	5-isoquinolyl
15	1513	3-HOC6H4CH2	3,4-
			$methylenedioxyC_6H_3$
	1514	3-HOC6H4CH2	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1514	3-HOC6H4CH2	2-imidazolyl
20	1516	3-HOC6H4CH2	2-oxazolyl
	1517	3-HOC6H4CH2	4-isoxazolyl
	1518	3-HOC6H4CH2	4-HOC6H4
	1519	3-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1520	3-HOC6H4CH2	3,4-diHOC6H4
25	1521	3-HOC6H4CH2	4-NH2CH2C6H4
	1522	3-HOC6H4CH2	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1523	4-HOC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
	1524	4-HOC6H4CH2	3-MeOC <sub>6</sub> H <sub>4</sub>
	1525	4-HOC6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
30	1526	4-HOC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1527	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1528	4-HOC6H4CH2	4-Me2NC6H4
	1529	4-HOC6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1530	4-HOC6H4CH2	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
35	1531 ·	4-HOC6H4CH2	4-pyridyl
	1532	4-HOC6H4CH2	3-pyridyl
	1533	4-HOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1534	4-HOC6H4CH2	2-thiazolyl

_			2
5	1535	4-HOC6H4CH2	2-pyrazolyl
	1536	4-HOC6H4CH2	5-isoquinolyl
	1537	4-HOC6H4CH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
•	1538	4-HOC6H4CH2	3,4-
10			ethylenedioxy $C_6H_3$
	1539	4-HOC6H4CH2	2-imidazolyl
	1540	4-HOC6H4CH2	2-oxazolyl
	1541	4-HOC6H4CH2	4-isoxazolyl
	1542	4-HOC6H4CH2	4-HOC6H4
15	1543	4-HOC6H4CH2	3-HOC6H4
	1544	4-HOC6H4CH2	3,4-diHOC6H4
	1545	4-HOC6H4CH2	4-NH2CH2C6H4
	1546	4-HOC6H4CH2	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1547	4-ClC6H4CH2	4-MeOC6H4
20	1548	4-ClC6H4CH2	3-MeOC6H4
	1549	4-ClC6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1550	4-ClC6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1551	4-ClC6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1552	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
25	1553	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1554	4-ClC6H4CH2	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1555	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1556	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1557	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
30	1558	4-ClC6H4CH2	2-thiazolyl
	1559	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1560	4-C1C6H4CH2	5-isoquinolyl
	1561	4-C1C6H4CH2	3,4-
			$methylenedioxyC_6H_3$
35	1562	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
•			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
•	1563	4-ClC6H4CH2	2-imidazolyl
	1564	4-C1C6H4CH2	2-oxazolyl

5	1565	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1566	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1567	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC <sub>6</sub> H <sub>4</sub> ·
	1568	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC <sub>6</sub> H <sub>4</sub>
	1569	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
10	1570	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4
	1571	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
	1572	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1573	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1574	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
15	1575	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1576	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1577	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1578	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1579	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
20	1580	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1581	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1582	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	1583	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1584	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
25	1585	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1586	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1587	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
30	1588	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1589	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1590	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1591	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1592	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
35	1593	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1594	2-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1595	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
	1596	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>

5	1597	3-NH2CH2C6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1598	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1599	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1600	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1601	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
10	1602	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1603	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1604	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1605	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1606	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
15	1607	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1608	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1609	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
		•	methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1610	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
20			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1611	$3-NH_2CH_2C_6H_4CH_2$	2-imidazolyl
	1612	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1613	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1614	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
25	1615	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
	1616	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	1617	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1618	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1619	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
30	1620	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
	1621	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1622	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1623	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1624	4-NH2CH2C6H4CH2	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
35	1625	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
•	1626	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me2NC6H4
	1627	4-NH2CH2C6H4CH2	4-pyridyl
	1628	4-NH2CH2C6H4CH2	3-pyridyl

5	1629	4-NH2CH2C6H4CH2	2-pyridyl
	1630	4-NH2CH2C6H4CH2	2-thiazolyl
	1631	4-NH2CH2C6H4CH2	2-pyrazolyl ·
	1632	4-NH2CH2C6H4CH2	5-isoquinolyl
	1633	4-NH2CH2C6H4CH2	3,4-
10			$methylenedioxyC_6H_3$
	1634	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxy $C_6H_3$
	1635	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	1636	4-NH2CH2C6H4CH2	2-oxazolyl
15	1637	4-NH2CH2C6H4CH2	4-isoxazolyl
	1638	4-NH2CH2C6H4CH2	4-HOC6H4
	1639	4-NH2CH2C6H4CH2	3-HOC6H4
	1640	4-NH2CH2C6H4CH2	3,4-diHOC6H4
	1641	4-NH2CH2C6H4CH2	4-NH2CH2C6H4
20	1642	4-NH2CH2C6H4CH2	3-NH2CH2C6H4
	1643	2-Me2NCH2C6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
	1644	2-Me2NCH2C6H4CH2	3-MeOC <sub>6</sub> H <sub>4</sub>
	1645	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1646	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
25	1647	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1648	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me2NC6H4
	1649	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1650	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me2NC6H4
	1651	$2-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	4-pyridyl
30	1652	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1653	2-Me2NCH2C6H4CH2	2-pyridyl
	1654	2-Me2NCH2C6H4CH2	2-thiazolyl
	1655	$2-Me_2NCH_2C_6H_4CH_2$	2-pyrazolyl
	1 <b>6</b> 56 <sub>,</sub>	2-Me2NCH2C6H4CH2	5-isoquinolyl
35	1657	2-Me2NCH2C6H4CH2	3,4-
			methylenedioxyC <sub>6</sub> H <sub>3</sub>
	1658	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>

5	1659	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
,	1660		
		2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
	1661	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1662	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC <sub>6</sub> H <sub>4</sub>
	1663	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
10	1664	2-Me2NCH2C6H4CH2	3,4-diHOC6H4
	1665	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1666	2-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1667	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
	1668	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-MeOC <sub>6</sub> H <sub>4</sub>
15	1669	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1670	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1671	$3-Me_2NCH_2C_6H_4CH_2$	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1672	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1673	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
20	1674	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1675	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1676	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
	1677	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1678	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
25	1679	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1680	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1681	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			$methylenedioxyC_6H_3$
	1682	$3-Me_2NCH_2C_6H_4CH_2$	3,4-
30			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1683	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-imidazolyl
	1684	$3-Me_2NCH_2C_6H_4CH_2$	2-oxazolyl
	1685	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1686	3-Me2NCH2C6H4CH2	4-HOC6H4
35	1687	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-HOC6H4
r	1688	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
•	1689	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
	1690	3-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4

5	1691	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
	1692	4-Me2NCH2C6H4CH2	3-MeOC <sub>6</sub> H <sub>4</sub>
	1693	4-Me2NCH2C6H4CH2	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> .
	1694	4-Me2NCH2C6H4CH2	3-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
	1695	4-Me2NCH2C6H4CH2	2-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub>
10	1696	4-Me2NCH2C6H4CH2	4-Me2NC6H4
	1697	4-Me2NCH2C6H4CH2	3-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1698	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
	1699	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-pyridyl
	1700	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-pyridyl
15	1701	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyridyl
	1702	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-thiazolyl
	1703	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-pyrazolyl
	1704	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	5-isoquinolyl
	1705	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
20			$methylenedioxyC_6H_3$
	1706	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-
			ethylenedioxyC <sub>6</sub> H <sub>3</sub>
	1707	$4-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	2-imidazolyl
	1708	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	2-oxazolyl
25	1709	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-isoxazolyl
	1710	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-HOC6H4
	1711	$4-\text{Me}_2\text{NCH}_2\text{C}_6\text{H}_4\text{CH}_2$	3-HOC6H4
	1712	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3,4-diHOC6H4
	1713	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-NH2CH2C6H4
30	1714	4-Me <sub>2</sub> NCH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	3-NH2CH2C6H4

5 <u>Table 4</u>

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Example Number	R <sup>1</sup>	R <sup>2</sup>
1715	Methyl	4-MeOC6H4
1716	ClCH <sub>2</sub>	$4-MeOC_6H_4$
1717	cyclopropyl	4-MeOC6H4
1718	isopropyl	4-MeOC <sub>6</sub> H <sub>4</sub>
1719	ethyl	4-MeOC <sub>6</sub> H <sub>4</sub>
1720	cyclopentyl	4-MeOC <sub>6</sub> H <sub>4</sub>
1721	cyclobutyl	4-MeOC <sub>6</sub> H <sub>4</sub>
1722	benzyl	4-MeOC <sub>6</sub> H <sub>4</sub>
1723	n-propyl	4-MeOC6H4
1724	4-ClC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
1725	3-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
1726	4-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
1727	3,4-diMeOC6H4CH2	4-MeOC6H4
1728	2,5-diMeOC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
1729	Methyl	2-MeOC6H4
1730	Methyl	3,4-diMeOC <sub>6</sub> H <sub>4</sub>
1731	3,4-(OCH <sub>2</sub> O)C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
1732	$3-$ thiophenylCH $_2$	4-MeOC <sub>6</sub> H <sub>4</sub>
1733	2-MeOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
1734	3,4-diClOC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
1735	2,4-diClOC6H4CH2	4-MeOC6H4
1736	2-ClC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>

1737	H <sub>2</sub> NCH <sub>2</sub>	4-MeOC6H4
1738	HOCH2NHCH2CH2	4-MeOC6H4
1739	$Me_2NCH_2$	4-MeOC6H4
1740	$piperazinylCH_2$	4-MeOC6H4
1741	4-Me-piperazinyl $\mathtt{CH}_2$	4-MeOC6H4
1742	4-HOCH <sub>2</sub> CH <sub>2</sub> -	4-MeOC6H4
	$piperazinylCH_2$	
1743	piperidinylCH2	4-MeOC <sub>6</sub> H <sub>4</sub>
1744	4-NH <sub>2</sub> CH <sub>2</sub> -	4-MeOC <sub>6</sub> H <sub>4</sub>
	piperidinylCH2	
1745	CH3CH2NHCH2	4-MeOC6H4
1746	thiomorpholinyl ${\tt CH_2}$	4-MeOC6H4
1747	$morpholinylCH_2$	4-MeOC6H4
1748	pyyrolidinylCH2	4-MeOC6H4
1749	$4$ -pyridylCH $_2$ NHCH $_2$	4-MeOC <sub>6</sub> H <sub>4</sub>
1750	4-CH3CONHC6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
1751	$4-CH_3OCONHC_6H_4CH_2$	4-MeOC <sub>6</sub> H <sub>4</sub>
1752	$4-NH_2CH_2CONHC_6H_4CH_2$	4-MeOC6H4
1753	4-Me <sub>2</sub> NCH <sub>2</sub> CONHC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC <sub>6</sub> H <sub>4</sub>
1754	4-N3C6H4CH2	4-MeOC <sub>6</sub> H <sub>4</sub>
1755	4-NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub>	4-MeOC6H4
1756	C <sub>6</sub> H <sub>5</sub> NH	4-MeOC6H4
1757	CH3CH2CH2NH	4-MeOC6H4
1758	$4-NH_2C_6H_4CH_2NH$	4-MeOC <sub>6</sub> H <sub>4</sub>
1759	4-pyridyCH <sub>2</sub> NH	4-MeOC <sub>6</sub> H <sub>4</sub>
1760	Methyl	4-HOC6H4
1761	Н	4-MeOC6H4
1762	Methyl	3-pyridyl
1763	Methyl	4-pyridyl
1764	Н	4-pyridyl
1765	Methyl	C6H5

1766	Methyl	4-MeSC <sub>6</sub> H <sub>4</sub>
1767	Methyl	4-MeSO2C6H4
1768	Methyl	4-Me2NC6H4
1769	${\tt morpholinylCH}_2$	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
1770	${\tt Me_2NCH_2}$	4-Me <sub>2</sub> NC <sub>6</sub> H <sub>4</sub>
1771	${\tt Me_2NCH_2}$	4-(piperdinyl)C <sub>6</sub> H <sub>4</sub>
1772	Me <sub>2</sub> NCH <sub>2</sub>	4 -
		(morpholinyl)C6H4
1773	${ m Me}_2{ m NCH}_2$	4-CH3CH2OC6H4
1774	Me <sub>2</sub> NCH <sub>2</sub>	4-CH3CH2CH2CH2C6H4
1775	Me <sub>2</sub> NCH <sub>2</sub>	4-CH3CH2C6H4
1776	Me <sub>2</sub> NCH <sub>2</sub>	4-CH3CH2CH2C6H4

5 <u>CLAIMS</u>

What is claimed is:

1. A compound according to formula (I):

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$$R^1$$
 $NH$ 
 $O$ 
 $N^2$ 
 $N$ 

or a stereoisomer or pharmaceutically acceptable salt form thereof, wherein:

X is selected from the group: O, S, and NR;

R is selected from the group: H,  $C_{1-4}$  alkyl, and  $NR^5R^{5a}$ ;

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- $R^1$  is selected from the group: H,  $C_{1-10}$  alkyl substituted with 0-3  $R^C$ ,  $C_{2-10}$  alkenyl substituted with 0-3  $R^C$ ,  $C_{2-10}$  alkynyl substituted with 0-3  $R^C$ , -NHR<sup>4</sup>,  $C_{3-10}$  carbocycle substituted with 0-5  $R^a$ , and 3-10 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S and substituted with 0-5  $R^b$ ;
- R<sup>a</sup> is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub>

  haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>,

  NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>,

SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle

5 containing from 1-4 heteroatoms selected from O, N, and S;

alternatively, when two  $R^{a}$ 's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;

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- $R^b$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, and SO<sub>2</sub>R<sup>3b</sup>;
- $R^{C}$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;

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- R<sup>2</sup> is selected from the group: H, C<sub>1-10</sub> alkyl substituted with 0-3 R<sup>C</sup>, C<sub>2-10</sub> alkenyl substituted with 0-3 R<sup>C</sup>, C<sub>2-10</sub> alkynyl substituted with 0-3 R<sup>C</sup>, -(CF<sub>2</sub>)<sub>m</sub>CF<sub>3</sub>, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 3-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S and substituted with 0-5 R<sup>b</sup>;
- $R^3$  is selected from the group: H, halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> haloalkyl, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>C(0)OR<sup>5</sup>, NR<sup>5</sup>C(0)R<sup>5</sup>, =0,

OR<sup>5</sup>,  $COR^5$ ,  $CO_2R^5$ ,  $CONR^5R^{5a}$ ,  $NHC(O)NR^5R^{5a}$ ,  $NHC(S)NR^5R^{5a}$ ,  $SO_2NR^5R^{5a}$ ,  $SO_2R^{5b}$ ,  $C_{1-4}$  alkyl, phenyl, and benzyl;

- $R^{3a}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom to which they are attached, form a heterocycle having 4-8 atoms in the ring and containing an additional 0-1 N, S, or O atom and substituted with 0-3 R<sup>3c</sup>;
- ${\ensuremath{\mathsf{R}}}^{3b}$  is selected from the group: H, C1-4 alkyl, phenyl, and benzyl;
- $R^{3c}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3b</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3b</sup>, NHC(0)NR<sup>3</sup>R<sup>3b</sup>, NHC(S)NR<sup>3</sup>R<sup>3b</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3b</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- R<sup>4</sup> is independently at each occurrence selected from the group: H, -CN, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;

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5 R<sup>5</sup> is independently selected from the group: H, C<sub>1-4</sub> alkyl, phenyl and benzyl;

 $R^{5a}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;

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 $R^{\mathrm{5b}}$  is independently selected from the group: H,  $C_{\mathrm{1-4}}$  alkyl, phenyl and benzyl; and

m is selected from 0, 1, 2, and 3.

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- 2. A compound according to claim 1, wherein:
- X is selected from the group: O, S, and NR;

- R is selected from the group: H,  $C_{1-4}$  alkyl, and  $NR^{5}R^{5a}$ ;
- R<sup>1</sup> is selected from the group: H, C<sub>1-5</sub> alkyl substituted
  with 0-3 R<sup>C</sup>, C<sub>2-5</sub> alkenyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub>
  alkynyl substituted with 0-3 R<sup>C</sup>, -NHR<sup>4</sup>, C<sub>3-6</sub> carbocycle
  substituted with 0-5 R<sup>a</sup>, and 3-6 membered heterocycle
  containing from 1-4 heteroatoms selected from O, N, and
  S and substituted with 0-5 R<sup>b</sup>;
- 30  $R^a$  is independently at each occurrence selected from the group: halo, -CN, N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, =O, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;

5 alternatively, when two Ra's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;

- $R^b$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, and SO<sub>2</sub>R<sup>3b</sup>;
- $R^{C}$  is independently at each occurrence selected from the group: halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;
- R<sup>2</sup> is selected from the group: H, C<sub>1-5</sub> alkyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub> alkenyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub>

  alkynyl substituted with 0-3 R<sup>C</sup>, -(CF<sub>2</sub>)<sub>m</sub>CF<sub>3</sub>, C<sub>3-6</sub>

  carbocycle substituted with 0-5 R<sup>a</sup>, and 3-10 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S and substituted with 0-5 R<sup>b</sup>;
- 30  $R^3$  is selected from the group: H, halo, -CN,  $NO_2$ ,  $C_{1-4}$  haloalkyl,  $NR^5R^{5a}$ ,  $NR^5NR^5R^{5a}$ ,  $NR^5C(0)OR^5$ ,  $NR^5C(0)R^5$ , =0,  $OR^5$ ,  $COR^5$ ,  $CO_2R^5$ ,  $CONR^5R^{5a}$ ,  $NHC(0)NR^5R^{5a}$ ,  $NHC(S)NR^5R^{5a}$ ,  $SO_2NR^5R^{5a}$ ,  $SO_2R^{5b}$ ,  $C_{1-4}$  alkyl, phenyl, and benzyl;

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 $R^{3a}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;

- alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom
  to which they are attached, form a heterocycle having
  4-8 atoms in the ring and containing an additional 0-1
  N, S, or O atom and substituted with 0-3 R<sup>3C</sup>;
- $R^{3b}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- $R^{3C}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3b</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3b</sup>, NHC(0)NR<sup>3</sup>R<sup>3b</sup>, NHC(S)NR<sup>3</sup>R<sup>3b</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3b</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- 25  $R^4$  is independently at each occurrence selected from the group: H, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,  $OR^$ 
  - $R^5$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;

5 R<sup>5a</sup> is independently selected from the group: H, C<sub>1-4</sub> alkyl, phenyl and benzyl;

- $R^{5b}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl; and
- m is selected from 0, 1, 2, and 3.

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- 3. A compound according to claim 2, wherein:
- X is selected from the group: O and S;
- R<sup>1</sup> is selected from the group: H, C<sub>1-5</sub> alkyl substituted with 0-3 R<sup>C</sup>, C<sub>2-5</sub> alkenyl substituted with 0-3 R<sup>C</sup>,

  -NHR<sup>4</sup>, C<sub>3-6</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 3-6 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S and substituted with 0-5 R<sup>b</sup>;
- group: halo, -CN, N<sub>3</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(0)OR<sup>3</sup>, NR<sup>3</sup>C(0)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, COR<sup>3</sup>, COR<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(0)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
  - alternatively, when two Ra's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;
- $R^{b}$  is independently at each occurrence selected from the group: halo, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^{3}R^{3a}$ ,

5  $NR^3C(O)OR^3$ ,  $NR^3C(O)R^3$ ,  $OR^3$ ,  $COR^3$ ,  $CO_2R^3$ ,  $CONR^3R^3a$ ,  $NHC(O)NR^3R^3a$ ,  $SO_2NR^3R^3a$ , and  $SO_2R^3b$ ;

- $R^{C}$  is independently at each occurrence selected from the group: halo, -CN,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^{3}R^{3a}$ ,  $NR^{5}NR^{5}R^{5a}$ ,  $NR^{3}C(0)OR^{3}$ ,  $NR^{3}C(0)R^{3}$ , =0,  $OR^{3}$ ,  $COR^{3}$ ,  $CO_{2}R^{3}$ ,  $CO_{2}R^{3}$ ,  $COR^{3}R^{3a}$ ,  $CO_{2}R^{3}R^{3a}$ ,  $CO_{2}R^{3}R^$
- $R^2$  is selected from the group: H,  $C_{1-5}$  alkyl substituted with 0-3  $R^C$ ,  $C_{2-5}$  alkenyl substituted with 0-3  $R^C$ ,  $-(CF_2)_m CF_3$ ,  $C_{3-6}$  carbocycle substituted with 0-5  $R^a$ , and 3-6 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S and substituted with 0-5  $R^b$ ;
- $R^3$  is selected from the group: H, halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> haloalkyl, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>C(O)OR<sup>5</sup>, NR<sup>5</sup>C(O)R<sup>5</sup>, =0, OR<sup>5</sup>, COR<sup>5</sup>, CO<sub>2</sub>R<sup>5</sup>, CONR<sup>5</sup>R<sup>5a</sup>, NHC(O)NR<sup>5</sup>R<sup>5a</sup>, NHC(S)NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>R<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>R<sup>5b</sup>, C<sub>1-4</sub> alkyl, phenyl, and benzyl;
  - $R^{3a}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
  - alternatively,  $R^3$  and  $R^{3a}$ , together with the nitrogen atom to which they are attached, form a heterocycle having

30

5 5-6 atoms in the ring and containing an additional 0-1 N, S, or O atom and substituted with 0-3 R<sup>3C</sup>;

 $\mathbb{R}^{3b}$  is selected from the group: H,  $\mathbb{C}_{1-4}$  alkyl, phenyl, and benzyl;

10

15

- $R^{3C}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3b</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3b</sup>, NHC(O)NR<sup>3</sup>R<sup>3b</sup>, NHC(S)NR<sup>3</sup>R<sup>3b</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3b</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- group: H, -CN, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, COR<sup>3</sup>, COR<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, C<sub>3-10</sub> carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;
  - $R^5$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- 30 R<sup>5a</sup> is independently selected from the group: H, C<sub>1-4</sub> alkyl, phenyl and benzyl;
  - R<sup>5b</sup> is independently selected from the group: H, C<sub>1-4</sub> alkyl, phenyl, and benzyl; and

m is selected from 0, 1, 2, and 3.

5

4. A compound according to claim 3, wherein:

X is selected from the group: O and S;

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15

- $R^1$  is selected from the group: H,  $C_{1-5}$  alkyl substituted with 0-2  $R^C$ , -NHR<sup>4</sup>,  $C_{3-6}$  carbocycle substituted with 0-5  $R^a$ , and 5-6 membered heterocycle containing from 1-4 heteroatoms selected from 0, N, and S and substituted with 0-5  $R^b$ ;
- R<sup>a</sup> is independently at each occurrence selected from the group: halo, -CN, N<sub>3</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO2R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>, NHC(O)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3</sup>b, and 5-6 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;
- alternatively, when two Ra's are present on adjacent carbon atoms they combine to form -OCH2O- or -OCH2CH2O-;
- $R^b$  is independently at each occurrence selected from the group: halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,
  - $R^C$  is independently at each occurrence selected from the group: halo,  $C_{1-4}$  alkyl,  $C_{1-4}$  haloalkyl,  $NR^3R^{3a}$ ,  $NR^5NR^5R^{5a}$ ,  $NR^3C(0)OR^3$ ,  $NR^3C(0)R^3$ ,  $OR^3$ ,  $COR^3$ ,  $CO2R^3$ ,  $CONR^3R^{3a}$ ,  $NHC(0)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ ,  $SO_2R^3$ ,  $CO_3-10$

carbocycle substituted with 0-5 R<sup>a</sup>, and 5-6 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S, substituted with 0-3 R<sup>3</sup>;

- $R^2$  is selected from the group:  $C_{1-5}$  alkyl substituted with 0-3  $R^C$ ,  $-(CF_2)_mCF_3$ ,  $C_{3-6}$  carbocycle substituted with 0-5  $R^a$ , and 5-6 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S and substituted with 0-3  $R^b$ ;
- 15  $R^3$  is selected from the group: H, halo, -CN, NO<sub>2</sub>, C<sub>1-4</sub> haloalkyl, NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>NR<sup>5</sup>R<sup>5a</sup>, NR<sup>5</sup>C(O)OR<sup>5</sup>, NR<sup>5</sup>C(O)R<sup>5</sup>, =O, OR<sup>5</sup>, COR<sup>5</sup>, CO<sub>2</sub>R<sup>5</sup>, CONR<sup>5</sup>R<sup>5a</sup>, NHC(O)NR<sup>5</sup>R<sup>5a</sup>, NHC(S)NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>NR<sup>5</sup>R<sup>5a</sup>, SO<sub>2</sub>R<sup>5b</sup>, C<sub>1-4</sub> alkyl, phenyl, and benzyl;
- 20  $R^{3a}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
- alternatively, R<sup>3</sup> and R<sup>3a</sup>, together with the nitrogen atom to which they are attached, form a heterocycle having 5-6 atoms in the ring and containing an additional 0-1 N, S, or O atom and substituted with 0-3 R3c;
  - $R^{3b}$  is selected from the group: H,  $C_{1-4}$  alkyl, phenyl, and benzyl;
  - $R^{3C}$  is independently at each occurrence selected from the group: halo, -CN , N<sub>3</sub>, NO<sub>2</sub>, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3b</sup>, =0, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3b</sup>, NHC(0)NR<sup>3</sup>R<sup>3b</sup>, NHC(S)NR<sup>3</sup>R<sup>3b</sup>, NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>,

SO<sub>2</sub>NR<sup>3</sup>R<sup>3b</sup>, SO<sub>2</sub>R<sup>3b</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected from O, N, and S;

- R<sup>4</sup> is independently at each occurrence selected from the
  group: H, -CN, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> haloalkyl, NR<sup>3</sup>R<sup>3a</sup>,
  NR<sup>3</sup>C(O)OR<sup>3</sup>, NR<sup>3</sup>C(O)R<sup>3</sup>, OR<sup>3</sup>, COR<sup>3</sup>, CO<sub>2</sub>R<sup>3</sup>, CONR<sup>3</sup>R<sup>3a</sup>,
  NHC(O)NR<sup>3</sup>R<sup>3a</sup>, NHC(S)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>R<sup>3b</sup>, C<sub>3-10</sub>
  carbocycle substituted with 0-5 R<sup>a</sup>, and 5-10 membered heterocycle containing from 1-4 heteroatoms selected
  from O, N, and S, substituted with 0-3 R<sup>3</sup>;
  - $R^5$  is independently selected from the group: H and  $C_{1-4}$  alkyl;
- 20  $R^{5a}$  is independently selected from the group: H,  $C_{1-4}$  alkyl, phenyl and benzyl;
  - $R^{5b}$  is independently selected from the group: H and  $C_{1-4}$  alkyl; and
- m is selected from 0, 1, 2, and 3.
- 5. A compound according to claim 1, wherein the compound 30 is selected from:
  - (a) 3-(4-methoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol4-one;
- 35 (b) 3-(phenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
  - (c) 3-(4-methylthiophenyl)-5-(acetamido)indeno[1,2c]pyrazol-4-one;

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(d) 3-(4-methylsulfonylphenyl)-5-(acetamido)indeno[1,2-
c]pyrazol-4-one;
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- (e) 3-(4-N,N-dimethylphenyl)-5-(acetamido)indeno[1,210 c]pyrazol-4-one;
  - (f) 3-(3-pyridyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
- (g) 3-(4-methoxyphenyl)-5-(formamido)indeno[1,2-c]pyrazol15 4-one;
  - (h) 3-(4-hydroxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol4-one;
- 20 (i) 3-(4-(1-piperidinyl)phenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
  - (j) 3-(4-morpholinyl)phenyl)-5-(acetamido)indeno[1,2c]pyrazol-4-one;

25

- (k) 3-(4-ethoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
- (1) 3-(4-butylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-430 one;
  - (m) 3-(4-ethylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4one;
- 35 (n) 3-(4-n-propylphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
  - (o) 3-(4-methoxyphenyl)-5-((4aminophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;

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(p) 3-(4-pyridyl)-5-(formamido)indeno[1,2-c]pyrazol-4-one;

```
3-(4-pyridyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
5
    (q)
         3-(4-methoxyphenyl)-5-((4-
    (r)
         aminophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
10
    (s)
         3-(4-methoxyphenyl)-5-((4-
         azidophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
    (t)
         3-(4-methoxyphenyl)-5-((4-
         methoxycarbonylaminophenyl)acetamido) indeno[1,2-
         c]pyrazol-4-one;
15
         3-(4-methoxyphenyl)-5-((4-
    (u)
         aminomethylcarbonylaminophenyl)
         acetamido) indeno [1,2-c] pyrazol-4-one;
20
     (v)
          3-(4-methoxyphenyl)-5-((4-dimethylaminomethylcarbonyl
          aminophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
     (w)
          3-(4-methoxyphenyl)-5-((4-
          acetamidophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
25
     (x)
          3-(4-methoxyphenyl)-5-
          (pyrrolidinylacetamido) indeno[1,2-c]pyrazol-4-one;
          3-(4-methoxyphenyl)-5-(morpholinylacetamido)indeno[1,2-
30
     (y)
          c]pyrazol-4-one;
          3-(4-methoxyphenyl)-5-
     (z)
          (thiomorpholinylacetamido)indeno[1,2-c]pyrazol-4-one;
35
     (aa) 3-(4-methoxyphenyl)-5-(ethylaminoacetamido)indeno[1,2-
          c]pyrazol-4-one;
     (bb) 3-(4-methoxyphenyl)-5-(piperidinylacetamido)indeno[1,2-
          c]pyrazol-4-one;
4-0
     (cc) 3-(4-methoxyphenyl)-5-(4-aminomethylpiperidinyl
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acetamido) indeno[1,2-c] pyrazol-4-one;

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(dd) 3-(4-methoxyphenyl)-5-(piperazinylacetamido)indeno[1,2-
         c]pyrazol-4-one;
    (ee) 3-(4-methoxyphenyl)-5-(4-methylpiperazinylacetamido)
10
         indeno[1,2-c]pyrazol-4-one;
    (ff) 3-(4-methoxyphenyl)-5-(4-(2-hydroxyethyl)piperazinyl
         acetamido) indeno[1,2-c]pyrazol-4-one;
15
     (qq) 3-(4-methoxyphenyl)-5-(N,N-
         dimethylaminoacetamido)indeno[1,2-c]pyrazol-4-one;
     (hh) 3-(4-methoxyphenyl)-5-((2-hydroxyethyl)aminoacetamido)
          indeno[1,2-c]pyrazol-4-one;
20
     (ii) 3-(4-methoxyphenyl)-5-(aminoacetamido)indeno[1,2-
          c]pyrazol-4-one;
     (jj) 3-(4-methoxyphenyl)-5-((2-
25
          chlorophenyl) acetamido) indeno[1,2-c]pyrazol-4-one;
     (kk) 3-(4-methoxyphenyl)-5-((2,4-
          dichlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
30
     (11) 3-(4-methoxyphenyl)-5-((3,4-
          dichlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
     (mm) 3-(4-methoxyphenyl)-5-((2-
          methoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
35
     (nn) 3-(4-dimethoxyphenyl)-5-((3-
          thiophene) acetamido) indeno [1,2-c] pyrazol-4-one;
     (oo) 3-(4-methoxyphenyl)-5-((3,4-
 40
          ethylenedioxyphenyl)acetamido)
           indeno[1,2-c]pyrazol-4-one;
                                   170
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5
    (pp) 3-(3,4-dimethoxyphenyl)-5-(acetamido)indeno[1,2-
         c]pyrazol-4-one;
    (qq) 3-(2-methoxyphenyl)-5-(acetamido)indeno[1,2-c]pyrazol-
10
         4-one;
     (rr) 3-(4-methoxyphenyl)-5-((2,5-
         dimethoxyphenyl) acetamido) indeno
          [1,2-c]pyrazol-4-one;
15
     (ss) 3-(4-methoxyphenyl)-5-((3,4-
         dimethoxyphenyl) acetamido) indeno
          [1,2-c]pyrazol-4-one;
     (tt) 3-(4-methoxyphenyl)-5-((4-
20
          methoxyphenyl) acetamido) indeno[1,2-c]pyrazol-4-one;
     (uu) 3-(4-methoxyphenyl)-5-((3-
          methoxyphenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
25
     (vv) 3-(4-methoxyphenyl)-5-((4-
          chlorophenyl)acetamido)indeno[1,2-c]pyrazol-4-one;
     (ww) 3-(4-methoxyphenyl)-5-(butylcarbamoyl)aminoindeno[1,2-
          c]pyrazol-4-one;
30
     (xx) 3-(4-methoxyphenyl)-5-(4-aminobenzylcarbamoyl)
          aminoindeno[1,2-c]pyrazol-4-one;
     (yy) 3-(4-methoxyphenyl)-5-(4-
35
          pyridylcarbamoyl) aminoindeno[1,2-c] pyrazol-4-one;
     (zz) 3-(4-methoxyphenyl)-5-(phenylcarbamoyl)aminoindeno[1,2-
          c]pyrazol-4-one;
4.0
                3-(4-methoxyphenyl)-5-(cyclobutylamido)indeno[1,2-
     (aaa)
           c]pyrazol-4-one;
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5
    (bbb)
               3-(4-methoxyphenyl)-5-
         (cyclopentylamido) indeno[1,2-c]pyrazol-4-one;
               3-(4-methoxyphenyl)-5-(propylamido)indeno[1,2-
    (ccc)
10
         c]pyrazol-4-one;
               3-(4-methoxyphenyl)-5-(ethylamido)indeno[1,2-
         c]pyrazol-4-one;
15
               3-(4-methoxyphenyl)-5-(benzylamido)indeno[1,2-
         c]pyrazol-4-one;
     (fff)
               3-(4-methoxyphenyl)-5-(isopropylamido)indeno[1,2-
         c]pyrazol-4-one;
20
               3-(4-methoxyphenyl)-5-(
     (ggg)
          (cyclopropylamido) indeno [1, 2-c] pyrazol-4-one;
     (hhh)
               3-(4-methoxyphenyl)-5-(chloroacetamido)indeno[1,2-
25
          c]pyrazol-4-one;
     (iii)
               3-(4-methoxyphenyl)-5-(4-pyridinylaminomethyl
          acetamido) indeno [1,2-c] pyrazol-4-one;
               3-(4-N, N-dimethylaminophenyl)-5-
30
     (;;;)
          (morpholinylacetamido) indeno[1,2-c] pyrazol-4-one;
     (kkk)
               3-(4-N, N-dimethylaminophenyl)-5-
          dimethylaminoacetamido) indeno [1,2-c] pyrazol-4-one;
35
     (111)
               3-(4-(trifluoromethyl)phenyl)-5-
          (acetamido) indeno[1,2-c]pyrazol-4-one;
                3-(4-(dimethylamino)phenyl)-5-((4-methyl-1-
     (mmm)
          piperazinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
40
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<sup>2</sup>WO 99/54308 PCT/US99/08616

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3-(4-(dimethylamino)phenyl)-5-((4-aminomethyl-1-
5
    (nnn)
         piperidinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
    (000)
              3-(4-(dimethylamino)phenyl)-5-((4-hydroxy-1-
         piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
10
               3-(4-(4-morpholinyl)phenyl)-5-((4-
    (ppp)
         morpholinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
               3-(4-(4-morpholinyl)phenyl)-5-((4-methyl-1-
    (qqq)
         piperazinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
15
               3-(4-(4-morpholinyl)phenyl)-5-((4-hydroxy-1-
    (rrr)
         piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
               3-(4-(4-morpholinyl)phenyl)-5-((4-aminomethyl-1-
20
     (sss)
          piperidinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
               3-(4-(1-piperazinyl)phenyl)-5-((4-
     (ttt)
          morpholinyl)acetamido)indeno[1,2-c]pyrazol-4-one;
25
     (uuu)
               3-(4-(1-piperazinyl)phenyl)-5-
          ((dimethylamino)acetamido)indeno[1,2-c]pyrazol-4-one;
               3-(4-(1-piperazinyl)phenyl)-5-((4-methyl-1-
     (vvv)
          piperazinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
30
               3-(4-(1-piperazinyl)phenyl)-5-((4-aminomethyl-1-
     (www)
          piperidinyl) acetamido) indeno [1,2-c] pyrazol-4-one;
               3-(4-(1-piperazinyl)phenyl)-5-
35
     (xxx)
          ((aminocarbonyl)amino)indeno[1,2-c]pyrazol-4-one;
               3-(4-(1-piperazinyl)phenyl)-5-
     (yyy)
          ((hydrazinocarbonyl)amino)indeno[1,2-c]pyrazol-4-one;
40
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5 (zzz) 3-(4-(1-piperazinyl)phenyl)-5-(((4-morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one;
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- (A) 3-(4-(4-methyl-1-piperazinyl)phenyl)-5-(((4morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4one;
- (B) 3-(4-(4-ethyl-1-piperazinyl)phenyl)-5-(((4morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4one;
  - (C) 3-(4-(4-isopropyl-1-piperazinyl)phenyl)-5-(((4morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4one;
- (D) 3-(4-(4-t-butoxycarbonyl-1-piperazinyl)phenyl)-5-(((4-morpholinylamino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one;
- 25 (E) 3-(4-(dimethylamino)phenyl)-5-((((4-methyl-1-piperazinyl)amino)carbonyl)amino)indeno[1,2-c]pyrazol-4-one;
  - (F) 3-(i-propyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    - (G) 3-(c-propyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
    - (H) 3-(t-butyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
- 35 (I) 3-(2-thienyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
  - (J) 3-(3-methyl-2-thienyl)-5-(acetamido)indeno[1,2-c]pyrazol-4-one;
- 40 (K) 3-(ethyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

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5 (L) 3-(n-propyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

(M) 3-(i-propyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4one;

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- (N) 3-(c-propyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
- (O) 3-(c-hexyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4one;
  - (P) 3-(2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
- 20 (Q) 3-(3-methyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
  - (R) 3-(5-methyl-2-thienyl)-5-(carbamoyl)aminoindeno[1,2c]pyrazol-4-one;

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- (S) 3-(5-ethylcarboxyl-2-thienyl)-5(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
- (T) 3-(3-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-30 one:
  - (U) 3-(1-methyl-3-pyrrolyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
- 35 (V) 3-(2,5-dimethyl-3-thienyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
  - (W) 3-(2-furanyl)-5-(carbamoyl)aminoindeno[1,2-c]pyrazol-4one;

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(X) 3-(i-propyl)-5-(N,Ndimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

5 3-(c-propyl)-5-(N,N-(Y) dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-A-one; (Z) 3-(c-hexyl)-5-(N,Ndimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; 10 (AA) 3-(2-thienyl)-5-(N,Ndimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; (BB) 3-(5-methoxy-2-thienyl)-5-(N,N-15 dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; (CC) 3-(5-methyl-2-thienyl)-5-(N,Ndimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; 20 (DD) 3-(5-ethylcarboxyl-2-thienyl)-5-(N,Ndimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; (EE) 3 - (3 - thienyl) - 5 - (N, N dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; 25 (FF) 3-(5-chloro-3-thienyl)-5-(N,Ndimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; (GG) 3-(2,5-dimethyl-3-thienyl)-5-(N,N-30 dimethylaminocarbamoyl)aminoindeno[1,2-c]pyrazol-4-one; (HH) 3-(2-furanyl)-5-(N,Ndimethylaminocarbamoyl) aminoindeno[1,2-c]pyrazol-4-one; 35 (II) 3-(i-propyl)-5-(4-carbamoylpiperidinylacetamido)indeno [1,2-c]pyrazol-4-one;

(JJ) 3-(c-hexyl)-5-(4-carbamoylpiperidinylacetamido)indeno

[1,2-c]pyrazol-4-one;

5 (KK) 3-(ethyl)-5-(4-aminomethylpiperidinylacetamido)indeno [1,2-c]pyrazol-4-one;

- (LL) 3-(i-propyl)-5-(4-aminomethylpiperidinylacetamido)
  indeno[1,2-c]pyrazol-4-one;
- (MM) 3-(c-propyl)-5-(4-aminomethylpiperidinylacetamido)
  indeno[1,2-c]pyrazol-4-one;

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- (NN) 3-(c-hexyl)-5-(4-aminomethylpiperidinylacetamido)indeno 15 [1,2-c]pyrazol-4-one;
  - (00) 3-(i-propyl)-5-(4-methylpiperazinylcarbamoyl)amino indeno[1,2-c]pyrazol-4-one;
- 20 (PP) 3-(5-ethylcarboxyl-2-thienyl)-5-(4methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4one;
- (QQ) 3-(5-carboxyl-2-thienyl)-5-(4methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4one;
- (RR) 3-(2,5-dimethyl-3-thienyl)-5-(4methylpiperazinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4one;
  - (SS) 3-(i-propyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2c]pyrazol-4-one;
- 35 (TT) 3-(N-methylcarbamoyl-4-piperidinyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

  - (VV) 3-(5-chloro-3-thienyl)-5 (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;

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5
    (WW) 3-(2,5-dimethyl-3-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
    (XX) 3-(5-ethylcarboxyl-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
10
    (YY) 3-(5-carboxyl-2-thienyl)-5-
          (morpholinylcarbamoyl) aminoindeno [1,2-c] pyrazol-4-one;
    (ZZ) 3-(5-benzylcarboxamido-2-thienyl)-5-
15
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
     (AAA)
               3-(5-(4-methylpiperazinyl)carboxamido-2-thienyl)-
          5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-
20
          one;
               3-(5-(2-(1-methylpyrrolidinyl)ethyl)carboxamido-2-
     (BBB)
          thienyl) -5- (morpholinylcarbamoyl) aminoindeno [1,2-
          c]pyrazol-4-one;
25
               3-(5-(N,N-dimethylamino)carboxamido-2-thienyl)-5-
     (CCC)
          (morpholinylcarbamoyl) aminoindeno[1,2-c]pyrazol-4-one;
               3-(5-(2-(N, N-dimethylamino)ethyl)carboxamido-2-
     (DDD)
30
          thienyl) -5- (morpholinylcarbamoyl) aminoindeno [1,2-
          c]pyrazol-4-one;
     (EEE)
               3-(5-(2-(pyrrolidinyl)ethyl)carboxamido-2-
          thienyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-
35
          c]pyrazol-4-one;
               3-(5-(2-(morpholinyl)ethyl)carboxamido-2-thienyl)-
     (FFF)
          5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-
          one;
40
                3-(5-morpholinylcarboxamido-2-thienyl)-5-
     (GGG)
           (morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
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- (HHH) 3-(5-(3-(pyrrolidonyl)propyl)carboxamido-2thienyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2c]pyrazol-4-one;
- 10 (III) 3-(5-(2-(3-pyridyl)ethyl)carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
  - (JJJ) 3-(5-(3-(imidazolyl)propyl)carboxamido-2-thienyl)-5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
    - (KKK) 3-(5-(2-(2-pyridyl)ethyl)carboxamido-2-thienyl)-5(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
- 20 (LLL) 3-(5-((2-pyridyl)methyl)carboxamido-2-thienyl)-5(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4-one;
  and
- (MMM) 3-(5-(2-(piperidinyl)ethyl)carboxamido-2-thienyl)5-(morpholinylcarbamoyl)aminoindeno[1,2-c]pyrazol-4one;

or pharmaceutically acceptable salt thereof.

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- 6. A pharmaceutical composition, comprising: a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of claim 1.
- 7. A method of treating cancer and proliferative diseases comprising: administering to a host in need of such treatment a therapeutically effective amount of a compound of claim 1, or a pharmaceutically acceptable salt or prodrug form thereof.

## INTERNATIONAL SEARCH REPORT

PCI/US 99/08616

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C07D231/54 A61K31/41 C07D409/12 C07D403/12 C07D401/12 C07D417/12 C07D413/12 C07D413/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 6-C07D-A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category *	Citation of document with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 2 989 538 A (M. C. FLORES, B. LOEV) 20 June 1961 (1961-06-20) column 1, line 24 - line 39; example 11	1-6
Y	PATENT ABSTRACTS OF JAPAN vol. 009, no. 287, 4 November 1985 (1985-11-04) & JP 60 130521 A (MORISHITA SEIYAKU K. K.), 12 July 1985 (1985-07-12) cited in the application abstract/	1-7

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
* Special categories of cited documents :  "A" document defining the general state of the lart which is not considered to be of particular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family	
which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or		
other means "P" document published prior to the international filling date but later than the priority date claimed		
Date of the actual completion of the international search	Date of mailing of the international search report	
3 August 1999	24/08/1999	
Name and mailing address of the ISA	Authorized officer	
European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Herz, C	

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